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**Winnebago Landfill
Winnebago County, Illinois**

**Permit Number: 1991-138-LF
Site Number: 2018080001**

Alternate Source Demonstration

October 2010



Submitted to:
Illinois Environmental Protection Agency
Bureau of Land
Springfield, Illinois

Prepared for:
Winnebago Landfill
8403 Lindenwood Road
Rockford, Illinois



Prepared by:

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October 12, 2010

Stephen F. Nightingale
Manager, Permit Section
Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Ave. East
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Springfield, IL 62794-9276

Re: 2018080001 – Winnebago County
Winnebago Landfill
Alternate Source Demonstration

Dear Mr. Nightingale:

On behalf of our client, Winnebago Landfill, submitted herein are an original and three copies of an alternate source demonstration in accordance with Condition VIII.15 of Permit No. 1991-138-LF Modification 42. Application forms (LPC-PA1, Certification of Authenticity, and copies of the LPC-PA16s) are provided in Appendix A of the application.

Please contact Tom Hilbert at (815) 963-7516 if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink that reads "Teresa N. Sharp". The signature is fluid and cursive, with the first name "Teresa" being more prominent.

Teresa N. Sharp
Environmental Scientist

TNS:bjh:sjb

Enclosure(s)

cc: Tom Hilbert – William Charles Waste Companies
Bernie Shorle – US EPA Region 5

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1. INTRODUCTION

Condition No. VIII.15 of Permit No. 1991-138-LF Modification No. 42 requires that an alternate source demonstration be conducted for all confirmed monitored increases detected in facility monitoring wells or that an assessment monitoring program be implemented to determine whether the facility is the source of the increases. Exceedences that were observed second quarter 2010 were sampled for confirmation during the third quarter 2010 event. This application provides an alternate source demonstration for the second quarter 2010 confirmed exceedences. The application forms (Certification of Authenticity, LPC-PA1, and copies of the LPC-PA16 forms) are contained in Appendix A.

2. BACKGROUND INFORMATION

2.1 Site Description

The facility contains two separate disposal areas (Northern and Southern Units) authorized under a single operating permit (Illinois EPA Permit No. 1991-138-LF). A site map has been provided as Figure 1. The Northern Unit ceased accepting waste on September 8, 2000. The Southern Unit continues to operate in accordance with the current permit. In addition, a North Expansion Unit, located between the existing Northern Unit and Baxter Road, began operation under Illinois Permit No. 2006-221-LF on May 16, 2008. This unit is also shown in Figure 1.

2.2 Site History

The Northern Unit of Winnebago Landfill, previously known as Pagel's Pit, was added to the National Priorities List in June 1986 due to upgradient groundwater contamination (chlorinated solvents) migrating from the Acme Solvents Superfund site and inorganic increases downgradient of the Northern Unit. Based on perceived groundwater contamination adjacent to the North Unit (at the Acme Solvents site), the U.S. EPA signed a Record of Decision (ROD) in June 1991 requiring Remedial Design and Remedial Action plans. The ROD was incorporated into a Consent Decree entered in the U.S. District Court for the Northern District of Illinois, Western Division, Case No. 92-C-20346 in February 1993. A ROD amendment was later submitted to the U.S. EPA in 1997 for a new or revised Consent Decree to reflect a new Statement of Work (SOW) due to a change in the remedy. The subject amendment to the ROD was issued in 1999.

The facility currently exists with a Groundwater Management Zone (GMZ) and approved remediation program via source control. The GMZ application was submitted July 10, 1995 (Illinois EPA Log No. 1995-250) to facilitate compliance of the Northern Unit with the applicable requirements of 35 Illinois Administrative Code (Ill. Adm. Code) Parts 811 and 812, pursuant to Sections 814.104, 814.301, and 814.302.

2.3 Site Hydrogeological Summary

The site hydrogeologic characteristics have been accurately determined based on implementation of a series of subsurface investigations, beginning with the initial drilling investigation in 1969 by Testing Engineers, Inc. Subsequent investigations have included advancement of borings, well/piezometer installations for the existing site and facility expansion, and comprehensive groundwater quality testing due to impacts from Acme Solvents. Additional hydrogeologic

information has been gained due to development activities of the North Expansion Unit, which includes excavation of materials exposing bedrock and unconsolidated deposits.

2.3.1 Unconsolidated Deposits

The composition of the unconsolidated deposits, which appear to be glacial outwash, varies with location throughout the facility boundaries. Coarse-grained sand and gravel with occasional silt and/or clay seams typically underlie the Northern Unit. The thickness of the sand and gravel varies from just a few feet beneath the east toe of the waste footprint to approximately 70 feet beneath the western edge of the waste boundary. The sand and gravel thickens to the west, corresponding with the erosion of the underlying dolomite. Unconsolidated sand and gravel glacial drift sediments directly underlay the western portion of the Northern Unit, while fractured dolomite bedrock underlies the eastern portion of the landfill.

2.3.2 Bedrock

The bedrock consists of dolomite, fractured and weathered to varying extents. Chert layers, chert nodules, and small vugs were commonly noted on boring logs. However, larger voids or karst characteristics were not indicated on the boring logs. The bedrock surface is highly variable throughout the facility, with a high of approximately 750 feet above mean sea level (MSL) at the southeast corner of the Northern Unit to a low of approximately 675 feet above MSL to the west and south of the Southern Unit. East of the site a dolomite bedrock upland is present and outcrops in the vicinity of the Acme Solvent site. This bedrock upland represents the eastern bedrock escarpment of the Upper Rock buried valley. The site is situated on the eastern edge of the Upper Rock buried bedrock valley. The overburden thickens as the elevation of the bedrock surface decreases to the west. As determined by boring investigations included as part of the 1997 Annual Evaluation of Effectiveness of GMZ (HSI GeoTrans, May 1997), the bedrock continues to decrease in elevation west of the site to approximately 645 feet above MSL directly west of Killbuck Creek.

2.3.3 Uppermost Aquifer

The uppermost aquifer for the site is located within the glaciofluvial sand and gravel deposits and the upper portion of the fractured dolomite bedrock. The saturated sands and gravels, which directly overlie the bedrock, occur in the western two-thirds of the Northern Unit. In locations where there are no saturated glaciofluvial deposits, the uppermost aquifer is located within the dolomite bedrock typically overlain by silty clay deposits. This occurs in the eastern third of the Northern Unit.

2.3.4 Groundwater Flow Conditions

The general flow direction within the uppermost aquifer is westward and downward in the bedrock upland east of the site. However, groundwater may flow upward from the bedrock to the unconsolidated sediments in areas where sediments are saturated (HSI GeoTrans, 1995). This is due to the higher permeability of the sand and gravel deposits. Groundwater flow in the unconsolidated sediments is to the west-northwest. Potentiometric surface maps provided in Appendix B indicate groundwater movement is generally west-northwest beneath the Northern Unit. Groundwater elevations obtained from recent monitor wells and piezometers installed west of Killbuck Creek indicate flow is to the north, west of Killbuck Creek.

Shallow groundwater may discharge to Killbuck Creek while groundwater in the lower part of the unconsolidated sediments and deeper bedrock flows beneath Killbuck Creek.

Killbuck creek is both a gaining and losing stream dependent upon hydrologic and atmospheric conditions. During drier periods where the water table drops below the bottom of the creek bed, surface waters feed the groundwater system. During wetter periods where the water table is high (above the bottom of the creek bed) the groundwater system will recharge the stream and wetlands. This fluctuation allows mixing of surface water (and, therefore, surface water constituents) with groundwater (and any groundwater constituents) often on a seasonal basis. In addition, dependent upon the creek stage, the surface waters of both the creek and the wetland mitigation area may be contiguous.

The aquifer system beneath the facility, which includes both the saturated sand and gravel and the upper weathered/fractured part of the dolomite, extends to an approximate depth of 665 feet MSL. East of the landfill and beneath the eastern quarter of the Northern Unit, the water table occurs within the dolomite bedrock. Beneath the western three-fourths of the site and within the Killbuck Creek Valley, the water table occurs within the sand and gravel deposits. Previous hydrogeologic investigations and evaluations have shown that vertical gradients do exist within the uppermost aquifer but are typically slight at any individual location. Therefore, groundwater elevations from the bedrock wells and wells screened in the unconsolidated materials (sand and gravel) were used to create one potentiometric surface for each quarterly sampling period. As expected, the hydraulic gradients are greater at the east end of the facility where the bedrock is higher and flat near Killbuck Creek.

3. GROUNDWATER QUALITY

In accordance with 35 Ill. Adm. Code 811.319 and the current permit, the groundwater quality is evaluated on a quarterly basis. Results of the statistical evaluations are reported quarterly in accordance with Condition No. VIII.18. Notification of observed increases/confirmed increases have been submitted in accordance with Condition No. VIII.14 of the permit.

3.1 Existing Monitor Well Network

The facility has an extensive network of monitoring wells from which groundwater data are obtained. Separate monitor well networks exist for the Northern and Southern Units. The Northern Unit contains 23 groundwater monitoring points, of which five are designated as background groundwater quality wells (upgradient), one is a compliance boundary well at the edge of the zone of attenuation and the remaining wells monitor within the zone of attenuation downgradient and sidegradient of the landfill. Winnebago Landfill samples 10 additional wells on a quarterly basis as part of the GMZ monitoring network. Six temporary monitoring wells were installed and sampled from October to December 2009 to monitor the groundwater quality west of the permitted GMZ area. Each of the wells is identified in Figure 1. The following table provides a list of the monitoring wells for the Northern Unit.

Northern Unit Detection Monitoring Wells (23)	
Upgradient	G09D, G09M, G13S, G13D, G20D
Compliance Boundary	R39S
Zone of Attenuation	G03M, G16M, G17S, G18D, G18S, G33D, G34D, G35D, G36S
	G37S, G38S, G40S, G41D, G41M, G41S, R42S, G51S
Northern Unit GMZ Only Wells (10)	
Compliance Boundary	G52S, G52M
Zone of Attenuation	R03S, G16D, G33S, G34S, G35S, G37D, G130, G50S
Northern Unit Temporary Wells (6)	
Zone of Attenuation	T1U-A, T1L-A, T2U-A, T2L-A, T3U-A, T3L-A

The Southern Unit contains 17 permitted groundwater monitoring points. Six are designated as background groundwater quality wells (upgradient); two (G13S and G13D) are also background wells for the Northern Unit. Although, monitoring wells R05S, G29S, and G29D are permitted as zone of attenuation wells, based on the potentiometric surface maps (Appendix B), these wells are also located upgradient to the waste units. The wells have been used previously in the derivation of the background/applicable groundwater quality standards (AGQS) values for the unit. The following table lists the monitoring wells for the Southern Unit.

Southern Unit Detection Monitoring Wells (17)	
Upgradient	R11S, G11D, G13S, G13D, R22S, G22D
Zone of Attenuation	R05S, G23D, R24D, R25D, G26S, G26D, R27D, R28D, G29S, G29D, G49D

3.2 Background Concentrations

The initial background concentrations (AGQSS) for the Northern Unit were determined from data obtained from four wells located east of Lindenwood Road (B-8, STI-2S, STI-2I, and STI-2D). Background sampling occurred during 1990 through 1992. The AGQSS were proposed in the initial significant modification application and subsequent addendums. Addendum 3 to the initial significant modification, dated February 10, 1993, provided the first full listing of routine AGQS values derived from wells G09M, G09D, G13S, and G13D. Since the time the background concentrations were obtained, remediation at the Acme Solvent facility ceased and a quarry began operation east of Acme Solvents (both facilities are located upgradient to the landfill). The approximate location of Acme Solvents and the quarry are shown in Figure 2. These activities have likely affected the current background conditions. To account for changes in the background groundwater quality since 1993, revised AGQS values for 60 G1 and G2 List parameters were submitted and subsequently approved on March 26, 2004 with the issuance of Modification 24 to the current permit.

The initial AGQSS for the Southern Unit were determined from data obtained from the permitted upgradient/background wells. However, revisions to several background values have included data from wells R05S, G29S, and G29D as part of the statistical derivation. Although permitted as zone of attenuation wells, these wells are actually hydraulically upgradient to the Southern Unit and provide additional information on the background groundwater quality. As mentioned in Section 3.1 above, monitor wells G13S and G13D are contained in the monitor well networks for both the Northern and Southern Units. The groundwater quality for these two wells along with R05S (Southern Unit) and G16S/D (Northern Unit) are not evaluated with respect to the

permitted AGQSs but are reviewed based on trend analyses in accordance with Condition VIII.25 of Permit No. 1991-138-LF (Modification No. 42).

3.3 Confirmed Increases

The table below lists the parameters and wells that have been confirmed to exceed the criteria listed in Condition VIII.13 during the second quarter 2010 sampling event at Winnebago Landfill. Second quarter 2010 confirmed exceedences at G13D (ammonia, arsenic, boron, chloride, and sulfate) and R22S (chloride and chromium), which are already being addressed by either pending Application Log No. 2010-152 or 2010-373, are not discussed as part of this application. The historical sampling results for each of the exceeding wells/parameters are provided as Table 1 and Table 2 for the Northern and Southern Units, respectively. Each confirmed increase is discussed in detail in the sections below. In addition, graphical trend analyses have also been conducted for each of the confirmed exceedences and are provided in Appendix C.

Unit	Well	Location	Confirmed Increases
Northern	G13D	Upgradient	dissolved ammonia *, dissolved arsenic *, dissolved boron *, dissolved chloride *, dissolved chromium, dissolved sulfate *, total dissolved solids
Southern	R22S	Upgradient	dissolved chloride *, dissolved chromium *, total dissolved solids
Southern	R28D	Downgradient	dissolved arsenic

*indicates parameter is currently being addressed by either pending Application Log Nos. 2010-152 or 2010-373

3.3.1 Dissolved Arsenic

The concentration of dissolved arsenic at Southern Unit well R28D exceeded the interwell AGQS value (3.801 ug/l) during second quarter 2010 (4.3 ug/l) and was confirmed third quarter 2010 (5.6 ug/l). Concentrations of dissolved arsenic have only exceeded the interwell AGQS value at R28D once before, during fourth quarter 2009. This exceedence was not confirmed. Historically, there have been no confirmed exceedences of any other List G1 indicator parameters at R28D. Also, there have been no exceedences of any organic parameters at R28D, with the exception of phenolics. However, phenolics concentrations have been non-detect (<5 ug/l) at R28D since second quarter 2002.

Concentrations of dissolved arsenic at R28D are proportionate to dissolved arsenic concentrations in various wells across the landfill. Historical concentrations of dissolved arsenic observed at Southern Unit wells range from 1 to 43 ug/l, the highest concentration being recorded at upgradient well G13D during second and third quarter 2010 (43 ug/l for both sampling events). Based on the equipotential lines contained in the potentiometric surface maps, well R28D is almost directly downgradient of G13D. Therefore, an increase at G13D is expected to influence the concentration at R28D. Concentrations of dissolved arsenic observed at R28D are well within the normal range for the facility. This along with the lack of indicator parameter exceedences or organic detections, indicates that the elevated arsenic concentrations are not related to waste disposal activities but to upgradient conditions as identified in well G13D. Therefore, an intrawell value (24.70 ug/l) is proposed for dissolved arsenic at R28D. The statistical method and intrawell calculations are provided in Appendix D and Appendix E, respectively.

3.3.2 Dissolved Chromium

The concentration of dissolved chromium at upgradient well G13D exceeded the interwell AGQS value (12 ug/l) during second quarter 2010 (72 ug/l) and was confirmed third quarter 2010 (70 ug/l). Dissolved chromium was added to the facility G1 monitoring list during third quarter 2008 as part of the regulatory amendments imposed by Illinois Pollution Control Board Rulemaking Docket No. R2007-008. Since there are only two years of data available for this parameter, historical concentration profiles cannot be derived. Well G13D is located upgradient of the facility and is not expected to be impacted by the facility. There have also been no confirmed exceedences of dissolved chromium at any of the wells downgradient of the facility, further indicating that the elevated concentrations at G13D are not related to the landfill.

A complete reevaluation of the background groundwater quality for the Northern Unit has been proposed as part of pending application Log Nos. 2010-038 (GMZ investigation report) and 2010-152 (alternate source demonstration). Concentrations of dissolved chromium will be reevaluated at that time and a revised AGQS will likely be proposed to account for the upgradient concentrations of the parameter. Exceedences of dissolved chromium will continue to be reported to the Illinois EPA in accordance with Condition VIII.14 of the permit; however, any additional assessment (i.e., alternate source demonstrations/assessment monitoring required by Condition VIII.15) will be conducted as part of the background reevaluation.

3.3.3 Total Dissolved Solids

Concentrations of total dissolved solids at G13D have sporadically exceeded the interwell AGQS (1,755.8 mg/l) since first quarter 2009. As mentioned above, monitoring well G13D is located upgradient of the facility and is not expected to be impacted by the facility. Total dissolved solids are simply a measure of the amount of dissolved constituents in the groundwater. In review of the second and third quarter analytical data from G13D, dissolved concentrations for the following parameters have increased: ammonia, arsenic, boron, chloride, chromium, lead, nitrite (as nitrogen), potassium, and zinc. With the exception of dissolved chromium and total dissolved solids, no other parameter was identified as a confirmed exceedence in well G13D. The confirmed increase of total dissolved solids is likely the result of the increases in the aforementioned parameters.

A complete reevaluation of the background groundwater quality for the Northern Unit has been proposed as part of pending application Log Nos. 2010-038 (GMZ investigation report) and 2010-152 (alternate source demonstration). Concentrations of total dissolved solids will be reevaluated at that time and a revised AGQS will likely be proposed to account for the upgradient concentrations of the parameter. Exceedences of total dissolved solids will continue to be reported to the Illinois EPA in accordance with Condition VIII.14 of the permit; however, any additional assessment (i.e., alternate source demonstrations/assessment monitoring required by Condition VIII.15) will be conducted as part of the background reevaluation.

The concentration of total dissolved solids at upgradient well R22S exceeded both the interwell (1,310.4 mg/l) and intrawell (2,105.4 mg/l) AGQS values during second quarter 2010 (2,400 mg/l) and was confirmed third quarter 2010 (2,400 mg/l). There have been no other confirmed exceedences of any other List G1 indicator parameters at R22S, with the exception of dissolved chloride and dissolved chromium. The elevated concentrations of dissolved chloride and dissolved chromium are due to spatial variability, therefore intrawell AGQS values have been proposed as part of pending Application Log Nos. 2010-152 and 2010-373, respectively. The

increases of total dissolved solids are likely related to the current elevated concentrations of dissolved chloride and dissolved chromium.

As discussed in previous applications (including recent Log Nos. 2005-088, 2007-012, and 2008-070, 2010-152, and 2010-373), although R22S is hydraulically upgradient of the waste unit (as shown in the potentiometric surface maps provided in Appendix B), groundwater data from the well were not used in the derivation of the interwell background values. This is due to the fact that R22S monitors a lithologic setting significantly different from the rest of the Southern Unit wells. Well R22S screens a silty lens within a clay wedge while all other Southern Unit wells screen aerially extensive sand and gravel deposits. To account for the spatial variability at this location, a revised intrawell AGQS (3,750.32 mg/l) is proposed for total dissolved solids. The statistical method and intrawell calculations are provided in Appendix D and Appendix E, respectively.

4. RECOMMENDATIONS AND CONCLUSIONS

Based on an evaluation of the historic sampling results, trend analyses, groundwater flow direction, and background information, the confirmed increases are not associated with the landfills, but appear to be related to upgradient groundwater quality or temporal/spatial variability. A complete reevaluation of the background groundwater quality for the Northern Unit has been proposed as part of pending application Log Nos. 2010-038 (GMZ investigation report) and 2010-152 (alternate source demonstration). Concentrations of dissolved chromium and total dissolved solids at well G13D will be reevaluated at that time and a revised AGQS will likely be proposed to account for the upgradient concentrations of the parameter. Intrawell values have been proposed (24.70 ug/l) for dissolved arsenic at R28D and (3,750.32 mg/l) for total dissolved solids at R22S to address spatial variability. This alternate source demonstration fulfills the requirements of Condition No. VIII.15 of Permit No. 1991-138-LF Modification No. 42.

TABLES

Table 1
Winnebago Landfill
Northern Unit Analytical
G13D

Well ID	Parameter	Units	GW List	AGQS	Addressed	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01
G13D	Ammonia as N, dissolved	mg/l	G1	0.9	*	0.43	0.3	0.3	0.97	0.38	0.372	0.18	0.32	0.17	< 0.1	< 0.1	0.34	< 0.1	< 0.1	< 0.1	< 0.12	
G13D	Arsenic, Dissolved	ug/l	G1	2	*	< 2.2	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	1.4	< 2	< 2	
G13D	Boron, Dissolved	ug/l	G1	98	*	< 110	< 110	< 110	< 110	< 110	< 110	< 110	< 110	< 100	< 140	< 100	< 100	< 100	< 98	< 98	< 98	
G13D	Cadmium, Dissolved	ug/l	G1	5		< 0.44	< 0.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.3	< 0.49	< 1	< 0.3	< 1	0.46	< 0.3	< 1	< 0.3	< 0.3	
G13D	Chloride, Dissolved	mg/l	G1	87.511	*	31.6	53.8	46.1	42.6	44.1	48.2	48	31	< 2	37	34	30	30	82	42	46	
G13D	Chromium, dissolved	ug/l	G1	12																		
G13D	Cyanide, Total	mg/l	G1	0.34		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.0034	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
G13D	Lead, Dissolved	ug/l	G1	4		< 3.3	< 3	< 3	< 3	< 3	< 3	< 3	3.9	< 3	< 3	< 3	8.4	< 3	< 3	< 3	< 3	
G13D	Magnesium, dissolved	mg/l	G1	170.41																		
G13D	Mercury, dissolved	ug/l	G1	0.2																		
G13D	Nitrate as N, dissolved	mg/l	G1	11.74	*	1.55	1.12	2.01	1.16	0.11	1.74	0.44	0.25	0.94	< 0.2	< 0.2	0.28	9.6	< 0.2	< 0.2	0.3	
G13D	pH (field)	units	G1	5.4 - 8.1		6.4	6.41	6.4	6.4	6.38	6.65	6.39	6.88	6.83	7.6	6.69	6.21	7.13	8.3	7.46	6.56	
G13D	Specific Conductance (field)	umhos	G1	2386.55		1350	1380	1420	1090	1420	1440	1390	1390	1260	1360	1300	1458	725	1239	1292	1304	
G13D	Sulfate, Dissolved	mg/l	G1	119.5	#	34.6	25.4	34.2	28.5	28.2	35.9	24	44	32	32	29	23	28	14	26	22	
G13D	Total Dissolved Solids, filtered	mg/l	G1	1755.8		812	638	504	921	839	783	950	780	760	790	990	740	430	900	770	770	
G13D	Zinc, Dissolved	ug/l	G1	236072.4		160	110	76	190	220	126	61	220	140	490	530	360	< 20	620	320	520	
G13D	1,1,1,2-Tetrachloroethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,1,1-Trichloroethane	ug/l	G2	12		< 5				< 5					< 1				< 1			
G13D	1,1,2,2-Tetrachloroethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,1,2-Trichloroethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,1-Dichloroethane	ug/l	G2	31		14				22					< 1				< 1			
G13D	1,1-Dichloroethene	ug/l	G2	2.5		< 2				< 2					< 1				< 1			
G13D	1,1-Dichloropropene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,2,3-Trichlorobenzene	ug/l	G2	5	*	< 5				< 5					< 1				< 1			
G13D	1,2,3-Trichloropropane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,2,4-Trichlorobenzene	ug/l	G2	5	*	< 5				< 5					< 1				< 1			
G13D	1,2,4-Trimethylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,2-Dibromo-3-chloropropane	ug/l	G2	5		< 5				< 5					< 2				< 2			
G13D	1,2-Dibromoethane (EDB)	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,2-Dichlorobenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,2-Dichloroethane	ug/l	G2	2.5		< 2				< 2					< 1				< 1			
G13D	1,2-Dichloropropane	ug/l	G2	6		< 5				6					< 1				< 1			
G13D	1,3,5-Trimethylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,3-Dichlorobenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,3-Dichloropropane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,3-Dichloropropene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	1,4-Dichlorobenzene	ug/l	G2	5	*	< 5				< 5					< 1				< 1			
G13D	2,2-Dichloropropane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	2-Butanone (MEK)	ug/l	G2	5		< 10				< 5					< 5				< 5			
G13D	2-Chlorotoluene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	2-Hexanone (MBK)	ug/l	G2	10		< 10				< 10					< 5				< 5			
G13D	4-Chlorotoluene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10		< 10				< 10					< 5				< 5			
G13D	Acetone	ug/l	G2	10	#	< 10				< 10					< 5				< 5			
G13D	Acrylonitrile	ug/l	G2	10		< 10				< 10					< 5				< 5			
G13D	Benzene	ug/l	G2	2.8		< 2				< 2					< 1				< 1			
G13D	Bromobenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Bromochloromethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Bromodichloromethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Bromoform	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Bromomethane	ug/l	G2	10		< 10				< 5					< 2				< 2			
G13D	Carbon disulfide	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Carbon tetrachloride	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Chlorobenzene	ug/l	G2	5	#	< 5				< 5					< 1				< 1			
G13D	Chloroethane	ug/l	G2	10		< 10				< 5					< 2				< 2			
G13D	Chloroform	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Chloromethane	ug/l	G2	10		< 10				< 5					< 2				< 2			
G13D	cis-1,2-Dichloroethene	ug/l	G2	5		55				98					< 1				< 1			
G13D	cis-1,3-Dichloropropene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Dibromochloromethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Dibromomethane	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Dichlorodifluoromethane	ug/l	G2	19		10				11					< 2				< 1			
G13D	Ethylbenzene	ug/l	G2	5	*	< 5				< 5					< 1				< 1			
G13D	Hexachlorobutadiene	ug/l	G2	100		< 5				< 5					< 11				0			
G13D	Iodomethane	ug/l	G2	10		< 5				< 5					< 5				< 5			
G13D	Isopropylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Methylene Chloride	ug/l	G2	8		< 5				< 5					< 1				< 1			
G13D	Naphthalene	ug/l	G2	100		< 10				< 10					< 11				0			
G13D	n-Butylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	n-Propylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Oil (Hexane Soluble)	mg/l	G2	2.5		< 5				< 5					< 5.4				< 1			
G13D	Phenolics	ug/l	G2	100	#	32	< 10	< 10	12	< 10	< 10	< 2.3	9.9	< 10	< 10	< 10	30	13	80	< 10	< 10	
G13D	p-Isopropyltoluene	ug/l	G2	5						< 5									< 1			
G13D	sec-Butylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Styrene	ug/l	G2	10		< 5				< 5					< 1				< 1			
G13D	tert-Butylbenzene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	Tetrachloroethene	ug/l	G2	26		13				15					< 1				< 1			
G13D	Tetrahydrofuran	ug/l	G2	42	*	< 5				< 5					< 5				< 5			
G13D	Toluene	ug/l	G2	20		< 5				< 5					< 1				< 1			
G13D	trans-1,2-Dichloroethene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	trans-1,3-Dichloropropene	ug/l	G2	5		< 5				< 5					< 1				< 1			
G13D	trans-1,4-Dichloro-2-butene	ug/l	G2	5		< 5				< 5					< 5				< 5			
G13D	Trichloroethene	ug/l	G2	66		21				42					< 1				< 1			
G13D	Trichlorofluoromethane	ug/l	G2	5		< 5				< 5					< 2				< 1			
G13D	Vinyl acetate	ug/l	G2	10		< 10			</													

Table 1
Winnebago Landfill
Northern Unit Analytical
G13D

Well ID	Parameter	Units	GW List	AGQS	Addressed	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04	2ndQtr04re	3rdQtr04	3rdQtr04re
G13D	Ammonia as N, dissolved	mg/l	G1	0.9	*	< 0.1	A 0.49	0.36	0.064	0.18	< 0.05	< 0.05	0.057	< 0.05		0.16	0.19	0.084	0.064		< 0.09	
G13D	Arsenic, Dissolved	ug/l	G1	2	*	< 2	< 2	2	< 1	< 1	1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Boron, Dissolved	ug/l	G1	98	*	< 98	< 98	120	140	95	110	120	80	90		83	79	88	63		65	
G13D	Cadmium, Dissolved	ug/l	G1	5		1.9	< 0.3	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Chloride, Dissolved	mg/l	G1	87.511	*	64	64	74	69	59	37	30	51	38		70	68	59	86		93	100
G13D	Chromium, dissolved	ug/l	G1	12												0						
G13D	Cyanide, Total	mg/l	G1	0.34		< 0.034	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	
G13D	Lead, Dissolved	ug/l	G1	4		< 4	< 3	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Magnesium, dissolved	mg/l	G1	170.41												0						
G13D	Mercury, dissolved	ug/l	G1	0.2												0						
G13D	Nitrate as N, dissolved	mg/l	G1	11.74	*	< 0.2	0.49	0.36	4.1	1.1	1.6	4	< 0.02	0.055		0.25	0.03	< 0.02	0.06		0.11	
G13D	pH (field)	units	G1	5.4 - 8.1		6.8	7.01	6.74	7.11	6.67	7.25	6.78	6.72	7.36		6.49	6.82	6.8	7.39	6.42	6.45	6.36
G13D	Specific Conductance (field)	umhos	G1	2386.55		1294	2350	1080	920	680	965	1150	1160	830		1560	970	880	1210	1450	1640	1470
G13D	Sulfate, Dissolved	mg/l	G1	119.5	#	23	24	110	130	110	90	59	38	57		43	27	48	22		24	
G13D	Total Dissolved Solids, filtered	mg/l	G1	1755.8		820	880	980	780	890	700	760	870	800		920	940	820	950		1000	
G13D	Zinc, Dissolved	ug/l	G1	236072.4		230	1900	320	360	150	220	180	23	73		94	30	12	< 6		9	
G13D	1,1,1,2-Tetrachloroethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,1,1-Trichloroethane	ug/l	G2	12		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,1,2,2-Tetrachloroethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,1,2-Trichloroethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,1-Dichloroethane	ug/l	G2	31		< 1				2				7	9	8	8	5	5		7	
G13D	1,1-Dichloroethene	ug/l	G2	2.5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,1-Dichloropropene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,2,3-Trichlorobenzene	ug/l	G2	5	*	< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,2,3-Trichloropropane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,2,4-Trichlorobenzene	ug/l	G2	5	*	< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,2,4-Trimethylbenzene	ug/l	G2	5		< 1				< 5				< 5		< 1	< 1	< 1	< 5		< 5	
G13D	1,2-Dibromo-3-chloropropane	ug/l	G2	5		< 2				< 2				< 0.05		< 2	< 2	< 2	< 0.05		< 0.05	
G13D	1,2-Dibromoethane (EDB)	ug/l	G2	5		< 1				< 0.5				< 0.05		< 0.5	< 0.5	< 0.5	< 0.05		< 0.05	
G13D	1,2-Dichlorobenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,2-Dichloroethane	ug/l	G2	2.5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,2-Dichloropropane	ug/l	G2	6		< 1				< 1				2	2	< 1	2	1	< 1		2	
G13D	1,3,5-Trimethylbenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,3-Dichlorobenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,3-Dichloropropane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	1,3-Dichloropropene	ug/l	G2	5		< 1				< 2				< 2		< 1	< 1	< 1	< 2		< 2	
G13D	1,4-Dichlorobenzene	ug/l	G2	5	*	< 1				< 1				3	4	2	2	4	4		3	
G13D	2,2-Dichloropropane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	2-Butanone (MEK)	ug/l	G2	5		< 5				< 5				< 5		< 5	< 5	< 5	< 5		< 5	
G13D	2-Chlorotoluene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	2-Hexanone (MBK)	ug/l	G2	10		< 5				< 5				< 5		< 5	< 5	< 5	< 5		< 5	
G13D	4-Chlorotoluene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10		< 5				< 5				< 5		< 5	< 5	< 5	< 5		< 5	
G13D	Acetone	ug/l	G2	10	#	< 5				< 10				< 10		< 10	< 10	< 10	< 10		< 10	
G13D	Acrylonitrile	ug/l	G2	10		< 5				< 5				< 5		< 50	< 50	< 50	< 5		< 5	
G13D	Benzene	ug/l	G2	2.8		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Bromobenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Bromochloromethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Bromodichloromethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Bromoform	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Bromomethane	ug/l	G2	10		< 2				< 2				< 2		< 2	< 2	< 2	< 2		< 2	
G13D	Carbon disulfide	ug/l	G2	5		< 1				< 1				< 1		< 1	16	< 1	< 1		1	
G13D	Carbon tetrachloride	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Chlorobenzene	ug/l	G2	5	#	< 1				< 1				2	3	2	2	4	5		4	
G13D	Chloroethane	ug/l	G2	10		< 2				< 2				< 2		< 2	< 2	< 2	< 2		< 2	
G13D	Chloroform	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Chloromethane	ug/l	G2	10		< 2				< 2				< 2		< 2	< 2	< 2	< 2		< 2	
G13D	cis-1,2-Dichloroethene	ug/l	G2	5		< 1				8				36	60	54	42	20	19	9	38	
G13D	cis-1,3-Dichloropropene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Dibromochloromethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Dibromomethane	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Dichlorodifluoromethane	ug/l	G2	19		< 2				< 2				< 2		< 2	2	< 2	< 2		< 2	
G13D	Ethylbenzene	ug/l	G2	5	*	< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Hexachlorobutadiene	ug/l	G2	100		< 10				< 2				< 10		< 2	< 2	< 2	< 10		< 10	
G13D	Iodomethane	ug/l	G2	10		< 5				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Isopropylbenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Methylene Chloride	ug/l	G2	8		< 1				< 5				< 5		< 5	< 5	10	< 5		< 5	
G13D	Naphthalene	ug/l	G2	100		< 10				< 10				< 10		< 10	< 10	< 10	< 10		< 10	
G13D	n-Butylbenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	n-Propylbenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Oil (Hexane Soluble)	mg/l	G2	2.5		< 1				< 5				< 5		< 5	< 5	< 6	< 5		< 5	
G13D	Phenolics	ug/l	G2	100	#	13	13	< 5	< 5	< 5	18	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5	
G13D	p-Isopropyltoluene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	sec-Butylbenzene	ug/l	G2	5		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	Styrene	ug/l	G2	10		< 1				< 1				< 1		< 1	< 1	< 1	< 1		< 1	
G13D	tert-Butylbenzene	ug/l	G2	5		< 1																

Table 1
Winnebago Landfill
Northern Unit Analytical
G13D

Well ID	Parameter	Units	GW List	AGQS	Addressed	4thQtr04	1stQtr05	1stQtr05re	2ndQtr05	2ndQtr05re	3rdQtr05	4thQtr05	4thQtr05re	1stQtr06	1stQtr06re	2ndQtr06	3rdQtr06	4thQtr06	1stQtr07	2ndQtr07	2ndQtr07re
G13D	Ammonia as N, dissolved	mg/l	G1	0.9	*	0.098	< 0.09		0.14		0.24	0.1		0.13		0.65	0.2	Q 0.28	0.24	0.45	
G13D	Arsenic, Dissolved	ug/l	G1	2	*	< 1	< 1		< 1		< 1	< 1		< 1		1.1	1.1	1.4	1.1	1.6	
G13D	Boron, Dissolved	ug/l	G1	98	*	80	56		56		54	43		52		55	64	65	59	74	
G13D	Cadmium, Dissolved	ug/l	G1	5		< 1	< 1		< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	
G13D	Chloride, Dissolved	mg/l	G1	87.511	*	91	84		92		98	86		110		90	94	100	97	40	
G13D	Chromium, dissolved	ug/l	G1	12																	
G13D	Cyanide, Total	mg/l	G1	0.34		< 0.005	Q< 0.005		< 0.005		< 0.005	< 0.005		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
G13D	Lead, Dissolved	ug/l	G1	4		< 1	< 1		< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	
G13D	Magnesium, dissolved	mg/l	G1	170.41																	
G13D	Mercury, dissolved	ug/l	G1	0.2																	
G13D	Nitrate as N, dissolved	mg/l	G1	11.74	*	< 0.02	< 0.02		< 0.02		< 0.02	H< 0.02		< 0.02		2.1	< 0.02	< 0.02	< 0.02	H 3.8	
G13D	pH (field)	units	G1	5.4 - 8.1		6.7	6.51	6.63	6.5		6.5	6.86	7.11	6.67	6.79	6.62	6.94	6.9	6.77	7.15	
G13D	Specific Conductance (field)	umhos	G1	2386.55		1485	1470	1415	1460		1460	987	1299	1462	1120	1422	1310	830	1523	1000	
G13D	Sulfate, Dissolved	mg/l	G1	119.5	#	22	20		18		15	7.9		8.5		41	41	32	16	280	180
G13D	Total Dissolved Solids, filtered	mg/l	G1	1755.8		1000	990		990		1000	1100		1000		930	500	970	1000	1000	
G13D	Zinc, Dissolved	ug/l	G1	236072.4		< 6	< 6		< 6		< 6	< 6		< 6		130	16	18	31	20000	
G13D	1,1,1,2-Tetrachloroethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,1,1-Trichloroethane	ug/l	G2	12					< 1							< 1				< 1	
G13D	1,1,2,2-Tetrachloroethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,1,2-Trichloroethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,1-Dichloroethane	ug/l	G2	31					4							< 1				< 1	
G13D	1,1-Dichloroethene	ug/l	G2	2.5					< 1							< 1				< 1	
G13D	1,1-Dichloropropene	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,2,3-Trichlorobenzene	ug/l	G2	5	*				< 1							< 1				< 1	
G13D	1,2,3-Trichloropropane	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,2,4-Trichlorobenzene	ug/l	G2	5	*				< 1							< 1				< 1	
G13D	1,2,4-Trimethylbenzene	ug/l	G2	5					< 5							< 5				< 5	
G13D	1,2-Dibromo-3-chloropropane	ug/l	G2	5					< 0.05							< 0.05				< 2	
G13D	1,2-Dibromoethane (EDB)	ug/l	G2	5					< 0.05							< 0.05				< 0.5	
G13D	1,2-Dichlorobenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,2-Dichloroethane	ug/l	G2	2.5					< 1							< 1				< 1	
G13D	1,2-Dichloropropane	ug/l	G2	6					1							< 1				< 1	
G13D	1,3,5-Trimethylbenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,3-Dichlorobenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,3-Dichloropropane	ug/l	G2	5					< 1							< 1				< 1	
G13D	1,3-Dichloropropene	ug/l	G2	5					< 2							< 2				< 2	
G13D	1,4-Dichlorobenzene	ug/l	G2	5	*				7							< 1				< 1	
G13D	2,2-Dichloropropane	ug/l	G2	5					< 1							< 1				< 1	
G13D	2-Butanone (MEK)	ug/l	G2	5					< 5							< 5				< 5	
G13D	2-Chlorotoluene	ug/l	G2	5					< 1							< 1				< 1	
G13D	2-Hexanone (MBK)	ug/l	G2	10					< 5							< 5				< 5	
G13D	4-Chlorotoluene	ug/l	G2	5					< 1							< 1				< 1	
G13D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10					< 5							< 5				< 5	
G13D	Acetone	ug/l	G2	10	#				< 10							< 10				< 10	
G13D	Acrylonitrile	ug/l	G2	10					< 5							< 5				< 5	
G13D	Benzene	ug/l	G2	2.8					< 1							< 1				< 1	
G13D	Bromobenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Bromochloromethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	Bromodichloromethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	Bromoform	ug/l	G2	5					< 1							< 1				< 1	
G13D	Bromomethane	ug/l	G2	10					< 2							< 2				< 2	
G13D	Carbon disulfide	ug/l	G2	5					2							< 1				< 1	
G13D	Carbon tetrachloride	ug/l	G2	5					< 1							< 1				< 1	
G13D	Chlorobenzene	ug/l	G2	5	#				7	8						< 1				< 1	
G13D	Chloroethane	ug/l	G2	10					< 2							< 2				< 2	
G13D	Chloroform	ug/l	G2	5					< 1							< 1				< 1	
G13D	Chloromethane	ug/l	G2	10					< 2							< 2				< 2	
G13D	cis-1,2-Dichloroethene	ug/l	G2	5					5							< 1				< 1	
G13D	cis-1,3-Dichloropropene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Dibromochloromethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	Dibromomethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	Dichlorodifluoromethane	ug/l	G2	19					< 2							< 2				< 2	
G13D	Ethylbenzene	ug/l	G2	5	*				< 1							< 1				< 1	
G13D	Hexachlorobutadiene	ug/l	G2	100					< 10							< 10				< 2	
G13D	Iodomethane	ug/l	G2	10					< 1							< 1				< 1	
G13D	Isopropylbenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Methylene Chloride	ug/l	G2	8					< 5							< 5				< 5	
G13D	Naphthalene	ug/l	G2	100					< 10							< 10				< 10	
G13D	n-Butylbenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	n-Propylbenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Oil (Hexane Soluble)	mg/l	G2	2.5					< 5							< 5				P< 5	
G13D	Phenolics	ug/l	G2	100	#	< 5	< 5		< 5		< 5	< 5		< 5		< 5	< 5	< 5	< 5	< 5	
G13D	p-Isopropyltoluene	ug/l	G2	5					< 1							< 1				< 1	
G13D	sec-Butylbenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Styrene	ug/l	G2	10					< 1							< 1				< 1	
G13D	tert-Butylbenzene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Tetrachloroethene	ug/l	G2	26					< 1							< 1				< 1	
G13D	Tetrahydrofuran	ug/l	G2	42	*				< 5							< 5				< 5	
G13D	Toluene	ug/l	G2	20					< 1							< 1				< 1	
G13D	trans-1,2-Dichloroethene	ug/l	G2	5					< 1							< 1				< 1	
G13D	trans-1,3-Dichloropropene	ug/l	G2	5					< 1							< 1				< 1	
G13D	trans-1,4-Dichloro-2-butene	ug/l	G2	5					< 1							< 1				< 1	
G13D	Trichloroethene	ug/l	G2	66					< 1							< 1				< 1	
G13D	Trichlorofluoromethane	ug/l	G2	5					< 1							< 1				< 1	
G13D	Vinyl acetate	ug/l	G2	10					< 5							< 5				< 5	
G13D	Vinyl chloride	ug/l	G2	17					< 2							< 2				< 2	
G13D	Xylenes (Total)	ug/l	G2	5					< 2							< 2				< 2	

Notes:
A highlighted cell indicates an exceedence.
* indicates Groundwater Management Zone parameter
indicates parameter being addressed by either pending Application
Log No. 2010-152 or Log No. 2010-373

Table 1
Winnebago Landfill
Northern Unit Analytical
G13D

Well ID	Parameter	Units	GW List	AGQS	Addressed	3rdQtr07	4thQtr07	4thQtr07re	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	2ndQtr09re	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10
G13D	Ammonia as N, dissolved	mg/l	G1	0.9	*	0.12	0.28		< 0.09		0.36	3.8	3.4	15	70		32	25	16	250	200
G13D	Arsenic, Dissolved	ug/l	G1	2	*	15	23		1.8		9.5	13	3.8	3.8	12		6.9	9.1	< 1	43	43
G13D	Boron, Dissolved	ug/l	G1	98	*	220	100		110		130	410	340	440	1800		2700	1900	250	1100	8500
G13D	Cadmium, Dissolved	ug/l	G1	5		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1
G13D	Chloride, Dissolved	mg/l	G1	87.511	*	60	100		34		19	37	67	110	260		190	190	170	830	720
G13D	Chromium, dissolved	ug/l	G1	12								< 4	4.4	5.3	11		16	12	< 4	72	70
G13D	Cyanide, Total	mg/l	G1	0.34		< 0.005	< 0.005		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	Q< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	0.0051
G13D	Lead, Dissolved	ug/l	G1	4		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	4	7.8
G13D	Magnesium, dissolved	mg/l	G1	170.41								79	93	150	160		110	140	33	190	160
G13D	Mercury, dissolved	ug/l	G1	0.2								< 0.2	< 0.2	< 0.2	< 0.2		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
G13D	Nitrate as N, dissolved	mg/l	G1	11.74	*	0.18	0.36		1.5		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	0.075	0.022	< 0.2	0.73
G13D	pH (field)	units	G1	5.4 - 8.1		7.21	6.55	6.49	6.85	6.47	7.28	6.58	6.93	6.97	6.86		6.91	6.88	7.18	6.94	7.17
G13D	Specific Conductance (field)	umhos	G1	2386.55		1141	1058	1396	1975	920	506	688	693	1667	3750		2240	1047	1437	3750	1409
G13D	Sulfate, Dissolved	mg/l	G1	119.5	#	220	130	330	420	420	390	160	170	570	680		70	280	310	270	360
G13D	Total Dissolved Solids, filtered	mg/l	G1	1755.8		1000	1000		1100		1100	1100	1200	1800	2500		1700	1800	1700	4200	3700
G13D	Zinc, Dissolved	ug/l	G1	236072.4		7500	320		1400		2800	100	45	170	62		34	470	< 6	1700	4800
G13D	1,1,1,2-Tetrachloroethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,1,1-Trichloroethane	ug/l	G2	12							< 1		< 1		< 1			< 1		< 1	
G13D	1,1,2,2-Tetrachloroethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,1,2-Trichloroethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,1-Dichloroethane	ug/l	G2	31							< 1		< 1		< 1			< 1		< 1	
G13D	1,1-Dichloroethene	ug/l	G2	2.5							< 1		< 1		< 1			< 1		< 1	
G13D	1,1-Dichloropropene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,2,3-Trichlorobenzene	ug/l	G2	5	*						< 1		< 1		< 1			< 1		< 1	
G13D	1,2,3-Trichloropropane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,2,4-Trichlorobenzene	ug/l	G2	5	*						< 1		< 1		< 1			< 1		< 1	
G13D	1,2,4-Trimethylbenzene	ug/l	G2	5							< 5		< 1		< 1			< 1		< 1	
G13D	1,2-Dibromo-3-chloropropane	ug/l	G2	5							< 2		< 0.05		< 0.05			< 0.05		< 0.05	
G13D	1,2-Dibromoethane (EDB)	ug/l	G2	5							< 0.5		< 0.05		< 0.05			< 0.05		< 0.05	
G13D	1,2-Dichlorobenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,2-Dichloroethane	ug/l	G2	2.5							< 1		< 1		< 1			< 1		< 1	
G13D	1,2-Dichloropropane	ug/l	G2	6							< 1		< 1		< 1			< 1		< 1	
G13D	1,3,5-Trimethylbenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,3-Dichlorobenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,3-Dichloropropane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	1,3-Dichloropropene	ug/l	G2	5							< 2		< 1		< 1			< 1		< 1	
G13D	1,4-Dichlorobenzene	ug/l	G2	5	*						< 1		< 1		< 1			< 1		< 1	
G13D	2,2-Dichloropropane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	2-Butanone (MEK)	ug/l	G2	5							< 5		< 5		< 5			< 5		< 5	
G13D	2-Chlorotoluene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	2-Hexanone (MBK)	ug/l	G2	10							< 5		< 5		< 1			< 1		< 1	
G13D	4-Chlorotoluene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10							< 5		< 5		< 5			< 5		< 5	
G13D	Acetone	ug/l	G2	10	#						< 10		< 10		18	< 5		< 5		13	
G13D	Acrylonitrile	ug/l	G2	10							< 5		< 50		< 5			< 5		< 5	
G13D	Benzene	ug/l	G2	2.8							< 1		< 1		< 1			< 1		< 1	
G13D	Bromobenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Bromochloromethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Bromodichloromethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Bromoform	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Bromomethane	ug/l	G2	10							< 2		< 2		< 2			< 2		< 2	
G13D	Carbon disulfide	ug/l	G2	5							< 1		< 1		< 1			3.3	< 1	1.5	
G13D	Carbon tetrachloride	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Chlorobenzene	ug/l	G2	5	#						< 1		< 1		< 1			< 1		1.7	
G13D	Chloroethane	ug/l	G2	10							< 2		< 2		< 2			< 2		< 2	
G13D	Chloroform	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Chloromethane	ug/l	G2	10							< 2		< 2		< 2			< 2		< 2	
G13D	cis-1,2-Dichloroethene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	cis-1,3-Dichloropropene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Dibromochloromethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Dibromomethane	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Dichlorodifluoromethane	ug/l	G2	19							< 2		< 2		< 1			< 1		< 1	
G13D	Ethylbenzene	ug/l	G2	5	*						< 1		< 1		< 1			< 1		< 1	
G13D	Hexachlorobutadiene	ug/l	G2	100							< 2		< 2		< 2			< 2		< 2	
G13D	Iodomethane	ug/l	G2	10							< 1		< 1		< 1			< 1		< 1	
G13D	Isopropylbenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Methylene Chloride	ug/l	G2	8							< 5		< 5		< 2.5			< 2.5		< 2.5	
G13D	Naphthalene	ug/l	G2	100							< 10		< 5		< 5			< 5		< 5	
G13D	n-Butylbenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	n-Propylbenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Oil (Hexane Soluble)	mg/l	G2	2.5							< 6		< 5		P< 5			< 6		< 5	
G13D	Phenolics	ug/l	G2	100	#	< 5	< 5		< 5		8.5	< 5	< 5		18	16		< 5		49	
G13D	p-Isopropyltoluene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	sec-Butylbenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Styrene	ug/l	G2	10							< 1		< 1		< 1			< 1		< 1	
G13D	tert-Butylbenzene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Tetrachloroethene	ug/l	G2	26							< 1		< 1		< 1			< 1		< 1	
G13D	Tetrahydrofuran	ug/l	G2	42	*						< 5		< 20		110			< 2.5		63	
G13D	Toluene	ug/l	G2	20							< 1		< 1		< 1			< 1		< 1	
G13D	trans-1,2-Dichloroethene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	trans-1,3-Dichloropropene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	trans-1,4-Dichloro-2-butene	ug/l	G2	5							< 1		< 1		< 1			< 1		< 1	
G13D	Trichloroethene	ug/l	G2	66							< 1		< 1		< 1						

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	2nd Qtr 98	1st Qtr 99	2nd Qtr 99	3rd Qtr 99	4th Qtr 99	1st Qtr 00	2nd Qtr 00	3rd Qtr 00	4th Qtr 00	1st Qtr 01	2nd Qtr 01	3rd Qtr 01	4th Qtr 01	1st Qtr 02	2nd Qtr 02
R22S	Ammonia as N, dissolved	mg/l	G1	1.481			0.157	< 0.1	< 0.062	< 0.1	< 0.1	< 0.1	< 0.062	< 0.045	0.12	< 0.09	< 0.1	< 0.09	< 0.05	< 0.05	< 0.05
R22S	Arsenic, Dissolved	ug/l	G1	3.801			< 2	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 7.1	< 3	< 1	< 1	2
R22S	Boron, Dissolved	ug/l	G1	147.619			< 110	< 100	22	< 100	< 100	< 100	20	22	29	28	23	25	44	23	29
R22S	Cadmium, Dissolved	ug/l	G1	3.264			< 0.44	< 1	< 0.3	< 1	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1	< 0.3	< 1	< 1	< 1
R22S	Chloride, Dissolved	mg/l	G1	200		#	267	180	200	260	200	200	250	310	270	280	320	310	8.5	290	360
R22S	Chromium, dissolved	ug/l	G1	19		#															
R22S	Cyanide, Total	mg/l	G1	0.005			< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.07	< 0.01	< 0.0143	< 0.01	< 0.005	< 0.005	< 0.005
R22S	Lead, Dissolved	ug/l	G1	1			< 3	< 3	< 0.73	< 3	< 3	< 3	< 0.73	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1	< 1	< 1
R22S	Magnesium, dissolved	mg/l	G1	160																	
R22S	Mercury, dissolved	ug/l	G1	0.2																	
R22S	Nitrate as N, dissolved	mg/l	G1	17.14			0.458	0.37	< 0.05	< 0.2	< 0.2	< 0.2	0.46	0.65	< 0.2	< 0.2	4.5	< 0.2	2.1	0.081	0.065
R22S	pH (field)	units	G1	4.9 - 9.8				7.43	7.17	7.42	7.32	7.22	8.13	7.46	7.15	6.9	7.5	7.82	7.29	7.14	7.47
R22S	Specific Conductance (field)	umhos	G1	2029.99				1220	1290	1430	1849	132	2008	792	1482	1542	1332	2730	620	1140	950
R22S	Sulfate, Dissolved	mg/l	G1	420			35	50	44	36	31	28	30	26	29	34	31	33	49	30	31
R22S	Total Dissolved Solids, filtered	mg/l	G1	1310.39	2105.394		834	680	720	920	760	720	930	870	830	760	890	1200	420	900	1100
R22S	Zinc, Dissolved	ug/l	G1	204.21			29.8	< 20	< 20	22	< 20	< 20	35	< 20	< 20	< 20	80	< 20	< 6	14	12
R22S	1,1,1,2-Tetrachloroethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,1,1-Trichloroethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,1,2,2-Tetrachloroethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,1,2-Trichloroethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,1-Dichloroethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,1-Dichloroethene	ug/l	G2	5			< 2		< 1				< 1				< 1				< 1
R22S	1,1-Dichloropropene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,2,3-Trichlorobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,2,3-Trichloropropane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,2,4-Trichlorobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,2,4-Trimethylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 5
R22S	1,2-Dibromo-3-chloropropane	ug/l	G2	5			< 5		< 2				< 2				< 2				< 0.05
R22S	1,2-Dibromoethane (EDB)	ug/l	G2	5			< 5		< 1				< 1				< 1.1				< 0.05
R22S	1,2-Dichlorobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,2-Dichloroethane	ug/l	G2	5			< 2		< 1				< 1				< 1				< 1
R22S	1,2-Dichloropropane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,3,5-Trimethylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,3-Dichlorobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,3-Dichloropropane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	1,3-Dichloropropene	ug/l	G2	5					< 1								< 1				< 2
R22S	1,4-Dichlorobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	2,2-Dichloropropane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	2-Butanone (MEK)	ug/l	G2	10			< 5		< 5				< 5				< 5				< 5
R22S	2-Chlorotoluene	ug/l	G2	1			< 1		< 1				< 1				< 1				< 1
R22S	2-Hexanone (MBK)	ug/l	G2	50			< 10		< 5				< 5				< 5				< 5
R22S	4-Chlorotoluene	ug/l	G2	1			< 1		< 1				< 1				< 1				< 1
R22S	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10			< 10		< 5				< 5				< 5				< 5
R22S	Acetone	ug/l	G2	100			< 10		< 5				< 5				< 5				< 10
R22S	Acrylonitrile	ug/l	G2	10			< 10		< 5				< 5				< 5				< 5
R22S	Benzene	ug/l	G2	5			< 2		< 1				< 1				< 1				< 1
R22S	Bromobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Bromochloromethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Bromodichloromethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Bromoforn	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Bromomethane	ug/l	G2	10			< 5		< 1				< 2				< 2				< 2
R22S	Carbon disulfide	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Carbon tetrachloride	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Chlorobenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Chloroethane	ug/l	G2	10			< 5		< 2				< 2				< 2				< 2
R22S	Chloroform	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Chloromethane	ug/l	G2	10			< 5		< 2				< 2				< 2				< 2
R22S	cis-1,2-Dichloroethene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	cis-1,3-Dichloropropene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Dibromochloromethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Dibromomethane	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Dichlorodifluoromethane	ug/l	G2	5			< 5		< 2				< 1				< 2				< 2
R22S	Ethylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Hexachlorobutadiene	ug/l	G2	10			< 5		< 11				< 10				< 10				< 10
R22S	Iodomethane	ug/l	G2	1			< 1		< 5				< 5				< 1				< 1
R22S	Isopropylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Methylene Chloride	ug/l	G2	10			< 5		< 1				< 1				< 1				< 5
R22S	Naphthalene	ug/l	G2	10			< 10		< 11				< 10				< 10				< 10
R22S	n-Butylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	n-Propylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Oil (Hexane Soluble)	mg/l	G2	5			< 5		< 0.1				< 1				< 1				< 5
R22S	Phenolics	ug/l	G2	5			< 10	28	23	24	< 10	< 10	< 10	15	120	22	< 10	< 10	< 1	< 5	< 5
R22S	p-Isopropyltoluene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	sec-Butylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Styrene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	tert-Butylbenzene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Tetrachloroethene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	Tetrahydrofuran	ug/l	G2	7			< 5		< 5				< 5				< 5				< 5
R22S	Toluene	ug/l	G2	5			< 5		< 10				< 1				< 1				< 1
R22S	trans-1,2-Dichloroethene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	trans-1,3-Dichloropropene	ug/l	G2	5			< 5		< 1				< 1				< 1				< 1
R22S	trans-1,4-Dichloro-2-butene	ug/l	G2	5			< 5		< 5				< 5				< 5				< 1
R22S	Trichloroethene	ug/l	G2	10			< 5		< 1												

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	2nd Qtr 98	1st Qtr 99	2nd Qtr 99	3rd Qtr 99	4th Qtr 99	1st Qtr 00	2nd Qtr 00	3rd Qtr 00	4th Qtr 00	1st Qtr 01	2nd Qtr 01	3rd Qtr 01	4th Qtr 01	1st Qtr 02	2nd Qtr 02
R28D	Ammonia as N, dissolved	mg/l	G1	1.481				< 0.1	< 0.062	< 0.1	< 0.1	< 0.1	< 0.062	< 0.1	< 0.1	< 0.09	< 0.1	< 0.09	< 0.05	< 0.05	1.3
R28D	Arsenic, Dissolved	ug/l	G1	3.801				< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 1	< 1	2
R28D	Boron, Dissolved	ug/l	G1	147.619				< 100	< 100	< 100	< 100	< 100	17	17	21	27	25	20	37	35	93
R28D	Cadmium, Dissolved	ug/l	G1	3.264				< 1	< 0.3	< 1	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1	< 1	< 0.3	< 1	< 1	< 1
R28D	Chloride, Dissolved	mg/l	G1	200				72	61	50	31	28	40	36	42	33	44	20	29	12	64
R28D	Chromium, dissolved	ug/l	G1	19																	
R28D	Cyanide, Total	mg/l	G1	0.005				< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0143	< 0.01	< 0.005	0.032	< 0.005	
R28D	Lead, Dissolved	ug/l	G1	1				< 3	< 0.73	< 3	< 3	< 3	< 0.73	3.1	< 1.6	< 1.6	< 1.6	< 1.6	< 1	< 1	< 1
R28D	Magnesium, dissolved	mg/l	G1	160																	
R28D	Mercury, dissolved	ug/l	G1	0.2																	
R28D	Nitrate as N, dissolved	mg/l	G1	17.14				4	1.9	3.5	4.8	5.5	8	7.1	8.2	3.8	1.8	2.2	2.9	0.71	< 0.02
R28D	pH (field)	units	G1	4.9 - 9.8				6.99	7.7	7.19	7.13	6.44	7.03	7.52	6.41	6.92	7.2	7.43	7.11	6.7	6.65
R28D	Specific Conductance (field)	umhos	G1	2029.99				1060		1045	473	915	953	914.3	1072	1050	1270	905	770	961	1075
R28D	Sulfate, Dissolved	mg/l	G1	420				45	34	43	43	39	45	48	61	120	200	76	77	25	94
R28D	Total Dissolved Solids, filtered	mg/l	G1	1310.39				610	690	690	540	530	570	610	640	640	860	650	550	890	790
R28D	Zinc, Dissolved	ug/l	G1	204.21				< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	31	< 20	< 20	17	25	12
R28D	1,1,1,2-Tetrachloroethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,1,1-Trichloroethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,1,2,2-Tetrachloroethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,1,2-Trichloroethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,1-Dichloroethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,1-Dichloroethene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,1-Dichloropropene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,2,3-Trichlorobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,2,3-Trichloropropane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,2,4-Trichlorobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,2,4-Trimethylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 5
R28D	1,2-Dibromo-3-chloropropane	ug/l	G2	5				< 2	< 2			< 2	< 2			< 2	< 2				< 0.05
R28D	1,2-Dibromoethane (EDB)	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1.1	< 1				< 0.05
R28D	1,2-Dichlorobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,2-Dichloroethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,2-Dichloropropane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,3,5-Trimethylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,3-Dichlorobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,3-Dichloropropane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	1,3-Dichloropropene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 2
R28D	1,4-Dichlorobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	2,2-Dichloropropane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	2-Butanone (MEK)	ug/l	G2	10				< 5	< 5			< 5	< 5			< 5	< 5				< 5
R28D	2-Chlorotoluene	ug/l	G2	1				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	2-Hexanone (MBK)	ug/l	G2	50				< 5	< 5			< 5	< 5			< 5	< 5				< 5
R28D	4-Chlorotoluene	ug/l	G2	1				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10				< 5	< 5			< 5	< 5			< 5	< 5				< 5
R28D	Acetone	ug/l	G2	100				< 5	< 5			< 5	< 5			< 5	< 5				< 10
R28D	Acrylonitrile	ug/l	G2	10				< 5	< 5			< 5	< 5			< 5	< 5				< 5
R28D	Benzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Bromobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Bromochloromethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Bromodichloromethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Bromoform	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Bromomethane	ug/l	G2	10				< 2	< 2			< 2	< 2			< 2	< 2				< 2
R28D	Carbon disulfide	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Carbon tetrachloride	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Chlorobenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Chloroethane	ug/l	G2	10				< 2	< 2			< 2	< 2			< 2	< 2				< 2
R28D	Chloroform	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Chloromethane	ug/l	G2	10				< 2	< 2			< 2	< 2			< 2	< 2				< 2
R28D	cis-1,2-Dichloroethene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	cis-1,3-Dichloropropene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Dibromochloromethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Dibromomethane	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Dichlorodifluoromethane	ug/l	G2	5				< 2	< 2			< 1	< 1			< 2	< 2				< 2
R28D	Ethylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Hexachlorobutadiene	ug/l	G2	10				< 10	< 10			< 10	< 10			< 10	< 10				< 10
R28D	Iodomethane	ug/l	G2	1				< 5	< 5		< 50	< 5	< 5			< 1	< 1				< 1
R28D	Isopropylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Methylene Chloride	ug/l	G2	10				< 1	< 1			< 1	< 1			< 1	< 1				< 5
R28D	Naphthalene	ug/l	G2	10				< 10	< 10			< 10	< 10			< 10	< 10				< 10
R28D	n-Butylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	n-Propylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Oil (Hexane Soluble)	mg/l	G2	5				< 0.1	< 10			< 1	< 1			< 1	< 1				< 6
R28D	Phenolics	ug/l	G2	5				24	< 10	< 10	83	< 50	< 10	58	140	< 10	13	70	< 5	8	< 5
R28D	p-Isopropyltoluene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	sec-Butylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Styrene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	tert-Butylbenzene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Tetrachloroethene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28D	Tetrahydrofuran	ug/l	G2	7				< 5	< 5			< 5	< 5			< 5	< 5				< 5
R28D	Toluene	ug/l	G2	5				< 1	< 1			< 1	< 1			< 1	< 1				< 1
R28																					

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04	2ndQtr04re	3rdQtr04	3rdQtr04re	4thQtr04	1stQtr05	1stQtr05re
R22S	Ammonia as N, dissolved	mg/l	G1	1.481			0.2	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.09		< 0.09	< 0.09	
R22S	Arsenic, Dissolved	ug/l	G1	3.801			2	< 1	< 1	< 1		< 1	2.5	2.3	2.2		2.8		2.3	2.3	
R22S	Boron, Dissolved	ug/l	G1	147.619			12	39	30	25		30	41	42	21		22		12	14	
R22S	Cadmium, Dissolved	ug/l	G1	3.264			< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1		< 1	< 1	
R22S	Chloride, Dissolved	mg/l	G1	200		#	310	290	390	390		430	390	390	430	480	440	480	450	440	480
R22S	Chromium, dissolved	ug/l	G1	19		#															
R22S	Cyanide, Total	mg/l	G1	0.005			< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005		< 0.005		< 0.005	< 0.005	
R22S	Lead, Dissolved	ug/l	G1	1			< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1		< 1	< 1	
R22S	Magnesium, dissolved	mg/l	G1	160																	
R22S	Mercury, dissolved	ug/l	G1	0.2																	
R22S	Nitrate as N, dissolved	mg/l	G1	17.14			< 0.02	0.054	< 0.02	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02		< 0.02		< 0.02	0.041	
R22S	pH (field)	units	G1	4.9 - 9.8			9.82	6.94	7.19	6.99		7.32	7.61	7.14	7.13	6.81	7.03	7.26	7.26	10.21	6.58
R22S	Specific Conductance (field)	umhos	G1	2029.99			1230	1230	1290	1190		1290	1140	1470	1360	1720	1680	1640	1300	970	1860
R22S	Sulfate, Dissolved	mg/l	G1	420			30	30	28	25		29	27	26	24		27		25	28	
R22S	Total Dissolved Solids, filtered	mg/l	G1	1310.39	2105.394		1100	890	950	1200		1300	1000	1100	1100		1100		1200	1100	
R22S	Zinc, Dissolved	ug/l	G1	204.21			39	15	44	< 6		< 6	< 6	< 6	< 6		< 6		< 6	< 6	
R22S	1,1,1,2-Tetrachloroethane	ug/l	G2	5						< 1					< 1						
R22S	1,1,1-Trichloroethane	ug/l	G2	5						< 1					< 1						
R22S	1,1,2,2-Tetrachloroethane	ug/l	G2	5						< 1					< 1						
R22S	1,1,2-Trichloroethane	ug/l	G2	5						< 1					< 1						
R22S	1,1-Dichloroethane	ug/l	G2	5						< 1					< 1						
R22S	1,1-Dichloroethene	ug/l	G2	5						< 1					< 1						
R22S	1,1-Dichloropropene	ug/l	G2	5						< 1					< 1						
R22S	1,2,3-Trichlorobenzene	ug/l	G2	5						< 1					< 1						
R22S	1,2,3-Trichloropropane	ug/l	G2	5						< 1					< 1						
R22S	1,2,4-Trichlorobenzene	ug/l	G2	5						< 1					< 1						
R22S	1,2,4-Trimethylbenzene	ug/l	G2	5						< 5					< 5						
R22S	1,2-Dibromo-3-chloropropane	ug/l	G2	5						< 0.05					< 0.05						
R22S	1,2-Dibromoethane (EDB)	ug/l	G2	5						< 0.05					< 0.05						
R22S	1,2-Dichlorobenzene	ug/l	G2	5						< 1					< 1						
R22S	1,2-Dichloroethane	ug/l	G2	5						< 1					< 1						
R22S	1,2-Dichloropropane	ug/l	G2	5						< 1					< 1						
R22S	1,3,5-Trimethylbenzene	ug/l	G2	5						< 1					< 1						
R22S	1,3-Dichlorobenzene	ug/l	G2	5						< 1					< 1						
R22S	1,3-Dichloropropane	ug/l	G2	5						< 1					< 1						
R22S	1,3-Dichloropropene	ug/l	G2	5						< 2					< 2						
R22S	1,4-Dichlorobenzene	ug/l	G2	5						< 1					< 1						
R22S	2,2-Dichloropropane	ug/l	G2	5						< 1					< 1						
R22S	2-Butanone (MEK)	ug/l	G2	10						< 5					< 5						
R22S	2-Chlorotoluene	ug/l	G2	1						< 1					< 1						
R22S	2-Hexanone (MBK)	ug/l	G2	50						< 5					< 5						
R22S	4-Chlorotoluene	ug/l	G2	1						< 1					< 1						
R22S	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10						< 5					< 5						
R22S	Acetone	ug/l	G2	100						< 10					< 10						
R22S	Acrylonitrile	ug/l	G2	10						< 5					< 5						
R22S	Benzene	ug/l	G2	5						< 1					< 1						
R22S	Bromobenzene	ug/l	G2	5						< 1					< 1						
R22S	Bromochloromethane	ug/l	G2	5						< 1					< 1						
R22S	Bromodichloromethane	ug/l	G2	5						< 1					< 1						
R22S	Bromoform	ug/l	G2	5						< 1					< 1						
R22S	Bromomethane	ug/l	G2	10						< 2					< 2						
R22S	Carbon disulfide	ug/l	G2	5						< 1					< 1						
R22S	Carbon tetrachloride	ug/l	G2	5						< 1					< 1						
R22S	Chlorobenzene	ug/l	G2	5						< 1					< 1						
R22S	Chloroethane	ug/l	G2	10						< 2					< 2						
R22S	Chloroform	ug/l	G2	5						< 1					< 1						
R22S	Chloromethane	ug/l	G2	10						< 2					< 2						
R22S	cis-1,2-Dichloroethene	ug/l	G2	5						< 1					< 1						
R22S	cis-1,3-Dichloropropene	ug/l	G2	5						< 1					< 1						
R22S	Dibromochloromethane	ug/l	G2	5						< 1					< 1						
R22S	Dibromomethane	ug/l	G2	5						< 1					< 1						
R22S	Dichlorodifluoromethane	ug/l	G2	5						< 2					< 2						
R22S	Ethylbenzene	ug/l	G2	5						< 1					< 1						
R22S	Hexachlorobutadiene	ug/l	G2	10						< 10					< 10						
R22S	Iodomethane	ug/l	G2	1						< 1					< 1						
R22S	Isopropylbenzene	ug/l	G2	5						< 1					< 1						
R22S	Methylene Chloride	ug/l	G2	10						< 5					< 5						
R22S	Naphthalene	ug/l	G2	10						< 10					< 10						
R22S	n-Butylbenzene	ug/l	G2	5						< 1					< 1						
R22S	n-Propylbenzene	ug/l	G2	5						< 1					< 1						
R22S	Oil (Hexane Soluble)	mg/l	G2	5						< 5					< 5						
R22S	Phenolics	ug/l	G2	5			< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5		< 5	< 5	
R22S	p-Isopropyltoluene	ug/l	G2	5						< 1					< 1						
R22S	sec-Butylbenzene	ug/l	G2	5						< 1					< 1						
R22S	Styrene	ug/l	G2	5						< 1					< 1						
R22S	tert-Butylbenzene	ug/l	G2	5						< 1					< 1						
R22S	Tetrachloroethene	ug/l	G2	5						< 1					< 1						
R22S	Tetrahydrofuran	ug/l	G2	7						< 5					< 5						
R22S	Toluene	ug/l	G2	5						< 1					< 1						
R22S	trans-1,2-Dichloroethene	ug/l	G2	5						< 1					< 1						
R22S	trans-1,3-Dichloropropene	ug/l	G2	5						< 1					< 1						
R22S	trans-1,4-Dichloro-2-butene	ug/l	G2	5						< 1					< 1						
R22S	Trichloroethene	ug/l	G2	10						< 1					< 1						
R22S	Trichlorofluoromethane	ug/l	G2	5						< 1					< 1						
R22S	Vinyl acetate	ug/l	G2	10						< 5					< 5						
R22S	Vinyl chloride	ug/l	G2	2						< 2					< 2						
R22S	Xylenes (Total)	ug/l	G2	5						< 2					< 2						

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04	2ndQtr04re	3rdQtr04	3rdQtr04re	4thQtr04	1stQtr05	1stQtr05re
R28D	Ammonia as N, dissolved	mg/l	G1	1.481			1.6	1.3	< 0.05	< 0.05		0.1	< 0.05	< 0.05	< 0.05		< 0.09		< 0.09	< 0.09	
R28D	Arsenic, Dissolved	ug/l	G1	3.801			1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1		< 1	< 1	
R28D	Boron, Dissolved	ug/l	G1	147.619			54	52	50	36		24	25	35	20		20		< 10	10	
R28D	Cadmium, Dissolved	ug/l	G1	3.264			< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1		< 1	< 1	
R28D	Chloride, Dissolved	mg/l	G1	200			35	32	33	40		41	40	37	38		39		38	42	
R28D	Chromium, dissolved	ug/l	G1	19																	
R28D	Cyanide, Total	mg/l	G1	0.005			< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005		< 0.005		< 0.005	< 0.005	
R28D	Lead, Dissolved	ug/l	G1	1			< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1		< 1		< 1	< 1	
R28D	Magnesium, dissolved	mg/l	G1	160																	
R28D	Mercury, dissolved	ug/l	G1	0.2																	
R28D	Nitrate as N, dissolved	mg/l	G1	17.14			0.24	4.4	6	8.9		9.5	9.1	9.6	10		9.9		9.2	9.2	
R28D	pH (field)	units	G1	4.9 - 9.8			6.85	6.88	6.94	7.09		7.08	7.03	7.07	7.66		7.11		7.06	7.7	
R28D	Specific Conductance (field)	umhos	G1	2029.99			999	615	812	694		672	816	664	690		793		808	806	
R28D	Sulfate, Dissolved	mg/l	G1	420			170	45	39	36		41	40	38	37		39		45	48	
R28D	Total Dissolved Solids, filtered	mg/l	G1	1310.39			760	490	520	500		510	530	450	410		450		540	520	
R28D	Zinc, Dissolved	ug/l	G1	204.21			31	26	28	< 6		< 6	< 6	< 6	< 6		< 6		< 6	< 6	
R28D	1,1,1,2-Tetrachloroethane	ug/l	G2	5						< 1					< 1						
R28D	1,1,1-Trichloroethane	ug/l	G2	5						< 1					< 1						
R28D	1,1,2,2-Tetrachloroethane	ug/l	G2	5						< 1					< 1						
R28D	1,1,2-Trichloroethane	ug/l	G2	5						< 1					< 1						
R28D	1,1-Dichloroethane	ug/l	G2	5						< 1					< 1						
R28D	1,1-Dichloroethene	ug/l	G2	5						< 1					< 1						
R28D	1,1-Dichloropropene	ug/l	G2	5						< 1					< 1						
R28D	1,2,3-Trichlorobenzene	ug/l	G2	5						< 1					< 1						
R28D	1,2,3-Trichloropropane	ug/l	G2	5						< 1					< 1						
R28D	1,2,4-Trichlorobenzene	ug/l	G2	5						< 1					< 1						
R28D	1,2,4-Trimethylbenzene	ug/l	G2	5						< 5					< 5						
R28D	1,2-Dibromo-3-chloropropane	ug/l	G2	5						< 0.05					< 0.05						
R28D	1,2-Dibromoethane (EDB)	ug/l	G2	5						< 0.05					< 0.05						
R28D	1,2-Dichlorobenzene	ug/l	G2	5						< 1					< 1						
R28D	1,2-Dichloroethane	ug/l	G2	5						< 1					< 1						
R28D	1,2-Dichloropropane	ug/l	G2	5						< 1					< 1						
R28D	1,3,5-Trimethylbenzene	ug/l	G2	5						< 1					< 1						
R28D	1,3-Dichlorobenzene	ug/l	G2	5						< 1					< 1						
R28D	1,3-Dichloropropane	ug/l	G2	5						< 1					< 1						
R28D	1,3-Dichloropropene	ug/l	G2	5						< 2					< 2						
R28D	1,4-Dichlorobenzene	ug/l	G2	5						< 1					< 1						
R28D	2,2-Dichloropropane	ug/l	G2	5						< 1					< 1						
R28D	2-Butanone (MEK)	ug/l	G2	10						< 5					< 5						
R28D	2-Chlorotoluene	ug/l	G2	1						< 1					< 1						
R28D	2-Hexanone (MBK)	ug/l	G2	50						< 5					< 5						
R28D	4-Chlorotoluene	ug/l	G2	1						< 1					< 1						
R28D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10						< 5					< 5						
R28D	Acetone	ug/l	G2	100						< 10					< 10						
R28D	Acrylonitrile	ug/l	G2	10						< 5					< 5						
R28D	Benzene	ug/l	G2	5						< 1					< 1						
R28D	Bromobenzene	ug/l	G2	5						< 1					< 1						
R28D	Bromochloromethane	ug/l	G2	5						< 1					< 1						
R28D	Bromodichloromethane	ug/l	G2	5						< 1					< 1						
R28D	Bromoform	ug/l	G2	5						< 1					< 1						
R28D	Bromomethane	ug/l	G2	10						< 2					< 2						
R28D	Carbon disulfide	ug/l	G2	5						< 1					< 1						
R28D	Carbon tetrachloride	ug/l	G2	5						< 1					< 1						
R28D	Chlorobenzene	ug/l	G2	5						< 1					< 1						
R28D	Chloroethane	ug/l	G2	10						< 2					< 2						
R28D	Chloroform	ug/l	G2	5						< 1					< 1						
R28D	Chloromethane	ug/l	G2	10						< 2					< 2						
R28D	cis-1,2-Dichloroethene	ug/l	G2	5						< 1					< 1						
R28D	cis-1,3-Dichloropropene	ug/l	G2	5						< 1					< 1						
R28D	Dibromochloromethane	ug/l	G2	5						< 1					< 1						
R28D	Dibromomethane	ug/l	G2	5						< 1					< 1						
R28D	Dichlorodifluoromethane	ug/l	G2	5						< 2					< 2						
R28D	Ethylbenzene	ug/l	G2	5						< 1					< 1						
R28D	Hexachlorobutadiene	ug/l	G2	10						< 10					< 10						
R28D	Iodomethane	ug/l	G2	1						< 1					< 1						
R28D	Isopropylbenzene	ug/l	G2	5						< 1					< 1						
R28D	Methylene Chloride	ug/l	G2	10						10	< 5				< 5						
R28D	Naphthalene	ug/l	G2	10						< 10					< 10						
R28D	n-Butylbenzene	ug/l	G2	5						< 1					< 1						
R28D	n-Propylbenzene	ug/l	G2	5						< 1					< 1						
R28D	Oil (Hexane Soluble)	mg/l	G2	5						< 5					< 6						
R28D	Phenolics	ug/l	G2	5			< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5		< 5		< 5	< 5	
R28D	p-Isopropyltoluene	ug/l	G2	5						< 1					< 1						
R28D	sec-Butylbenzene	ug/l	G2	5						< 1					< 1						
R28D	Styrene	ug/l	G2	5						< 1					< 1						
R28D	tert-Butylbenzene	ug/l	G2	5						< 1					< 1						
R28D	Tetrachloroethene	ug/l	G2	5						< 1					< 1						
R28D	Tetrahydrofuran	ug/l	G2	7						< 5					< 5						
R28D	Toluene	ug/l	G2	5						< 1					< 1						
R28D	trans-1,2-Dichloroethene	ug/l	G2	5						< 1					< 1						
R28D	trans-1,3-Dichloropropene	ug/l	G2	5						< 1					< 1						
R28D	trans-1,4-Dichloro-2-butene	ug/l	G2	5						< 1					< 1						
R28D	Trichloroethene	ug/l	G2	10						< 1					< 1						
R28D	Trichlorofluoromethane	ug/l	G2	5						< 1					< 1						
R28D	Vinyl acetate	ug/l	G2	10						< 5					< 5						
R28D	Vinyl chloride	ug/l	G2	2						< 2					< 2						
R28D	Xylenes (Total)	ug/l	G2	5						< 2					< 2						

Notes:
A highlighted cell indicates an exceedence.
indicates parameter being addressed by either pending Application
Log No. 2010-152 or Log No. 2010-373.

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	2ndQtr05	2ndQtr05re	3rdQtr05	3rdQtr05re	4thQtr05	4thQtr05re	1stQtr06	1stQtr06re	2ndQtr06	2ndQtr06re	3rdQtr06	3rdQtr06re	4thQtr06	4thQtr06re	1stQtr07	1stQtr07re
R22S	Ammonia as N, dissolved	mg/l	G1	1.481			< 0.09		< 0.1		< 0.1		< 0.1		< 0.09		< 0.09		< 0.09		< 0.09	
R22S	Arsenic, Dissolved	ug/l	G1	3.801			3.1		1.7		< 1		1.1		2.7		2.8		3.7	1.5	< 1	
R22S	Boron, Dissolved	ug/l	G1	147.619			19		17		11		21		20		22		21		33	
R22S	Cadmium, Dissolved	ug/l	G1	3.264			< 1		< 1		< 1		< 1		< 1		< 1		< 1		< 1	
R22S	Chloride, Dissolved	mg/l	G1	200		#	460	400	380	460	460		490		530		480		530		540	580
R22S	Chromium, dissolved	ug/l	G1	19		#																
R22S	Cyanide, Total	mg/l	G1	0.005			< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005	
R22S	Lead, Dissolved	ug/l	G1	1			< 1		< 1		< 1		< 1		< 1		< 1		< 1		< 1	
R22S	Magnesium, dissolved	mg/l	G1	160																		
R22S	Mercury, dissolved	ug/l	G1	0.2																		
R22S	Nitrate as N, dissolved	mg/l	G1	17.14			< 0.02		0.075		0.027		0.047		< 0.02		0.16		< 0.02		0.045	
R22S	pH (field)	units	G1	4.9 - 9.8			7.48		8.3	7.31	8	6.55	7.12	6.9	6.99		7.3	7.02	8.88		7.4	7.14
R22S	Specific Conductance (field)	umhos	G1	2029.99			1450		1960	1910	1366	1572	1055	1313	1778		1610	1650	1046		1984	1735
R22S	Sulfate, Dissolved	mg/l	G1	420			25		28		29		27		23		28		27		26	
R22S	Total Dissolved Solids, filtered	mg/l	G1	1310.39	2105.394		1100		1200		1400	1200	1300		1300		1500	1300	1300		1300	
R22S	Zinc, Dissolved	ug/l	G1	204.21			< 6		< 6		< 6		< 6		< 6		7		< 6		< 6	
R22S	1,1,1,2-Tetrachloroethane	ug/l	G2	5			< 1								< 1							
R22S	1,1,1-Trichloroethane	ug/l	G2	5			< 1								< 1							
R22S	1,1,2,2-Tetrachloroethane	ug/l	G2	5			< 1								< 1							
R22S	1,1,2-Trichloroethane	ug/l	G2	5			< 1								< 1							
R22S	1,1-Dichloroethane	ug/l	G2	5			< 1								< 1							
R22S	1,1-Dichloroethene	ug/l	G2	5			< 1								< 1							
R22S	1,1-Dichloropropene	ug/l	G2	5			< 1								< 1							
R22S	1,2,3-Trichlorobenzene	ug/l	G2	5			< 1								< 1							
R22S	1,2,3-Trichloropropane	ug/l	G2	5			< 1								< 1							
R22S	1,2,4-Trichlorobenzene	ug/l	G2	5			< 1								< 1							
R22S	1,2,4-Trimethylbenzene	ug/l	G2	5			< 5								< 5							
R22S	1,2-Dibromo-3-chloropropane	ug/l	G2	5			< 0.05								< 0.05							
R22S	1,2-Dibromoethane (EDB)	ug/l	G2	5			< 0.05								< 0.05							
R22S	1,2-Dichlorobenzene	ug/l	G2	5			< 1								< 1							
R22S	1,2-Dichloroethane	ug/l	G2	5			< 1								< 1							
R22S	1,2-Dichloropropane	ug/l	G2	5			< 1								< 1							
R22S	1,3,5-Trimethylbenzene	ug/l	G2	5			< 1								< 1							
R22S	1,3-Dichlorobenzene	ug/l	G2	5			< 1								< 1							
R22S	1,3-Dichloropropane	ug/l	G2	5			< 1								< 1							
R22S	1,3-Dichloropropene	ug/l	G2	5			< 2								< 2							
R22S	1,4-Dichlorobenzene	ug/l	G2	5			< 1								< 1							
R22S	2,2-Dichloropropane	ug/l	G2	5			< 1								< 1							
R22S	2-Butanone (MEK)	ug/l	G2	10			< 5								< 5							
R22S	2-Chlorotoluene	ug/l	G2	1			< 1								< 1							
R22S	2-Hexanone (MBK)	ug/l	G2	50			< 5								< 5							
R22S	4-Chlorotoluene	ug/l	G2	1			< 1								< 1							
R22S	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10			< 5								< 5							
R22S	Acetone	ug/l	G2	100			< 10								< 10							
R22S	Acrylonitrile	ug/l	G2	10			< 5								< 5							
R22S	Benzene	ug/l	G2	5			< 1								< 1							
R22S	Bromobenzene	ug/l	G2	5			< 1								< 1							
R22S	Bromochloromethane	ug/l	G2	5			< 1								< 1							
R22S	Bromodichloromethane	ug/l	G2	5			< 1								< 1							
R22S	Bromoform	ug/l	G2	5			< 1								< 1							
R22S	Bromomethane	ug/l	G2	10			< 2								< 2							
R22S	Carbon disulfide	ug/l	G2	5			< 1								< 1							
R22S	Carbon tetrachloride	ug/l	G2	5			< 1								< 1							
R22S	Chlorobenzene	ug/l	G2	5			< 1								< 1							
R22S	Chloroethane	ug/l	G2	10			< 2								< 2							
R22S	Chloroform	ug/l	G2	5			< 1								< 1							
R22S	Chloromethane	ug/l	G2	10			< 2								< 2							
R22S	cis-1,2-Dichloroethene	ug/l	G2	5			< 1								< 1							
R22S	cis-1,3-Dichloropropene	ug/l	G2	5			< 1								< 1							
R22S	Dibromochloromethane	ug/l	G2	5			< 1								< 1							
R22S	Dibromomethane	ug/l	G2	5			< 1								< 1							
R22S	Dichlorodifluoromethane	ug/l	G2	5			< 2								< 2							
R22S	Ethylbenzene	ug/l	G2	5			< 1								< 1							
R22S	Hexachlorobutadiene	ug/l	G2	10			< 10								< 10							
R22S	Iodomethane	ug/l	G2	1			< 1								< 1							
R22S	Isopropylbenzene	ug/l	G2	5			< 1								< 1							
R22S	Methylene Chloride	ug/l	G2	10			< 5								< 5							
R22S	Naphthalene	ug/l	G2	10			< 10								< 10							
R22S	n-Butylbenzene	ug/l	G2	5			< 1								< 1							
R22S	n-Propylbenzene	ug/l	G2	5			< 1								< 1							
R22S	Oil (Hexane Soluble)	mg/l	G2	5			< 5								< 5							
R22S	Phenolics	ug/l	G2	5			< 5		< 5		< 5		< 5		< 5		< 5		< 5		< 5	
R22S	p-Isopropyltoluene	ug/l	G2	5			< 1								< 1							
R22S	sec-Butylbenzene	ug/l	G2	5			< 1								< 1							
R22S	Styrene	ug/l	G2	5			< 1								< 1							
R22S	tert-Butylbenzene	ug/l	G2	5			< 1								< 1							
R22S	Tetrachloroethene	ug/l	G2	5			< 1								< 1							
R22S	Tetrahydrofuran	ug/l	G2	7			< 5								< 5							
R22S	Toluene	ug/l	G2	5			< 1								< 1							
R22S	trans-1,2-Dichloroethene	ug/l	G2	5			< 1								< 1							
R22S	trans-1,3-Dichloropropene	ug/l	G2	5			< 1								< 1							
R22S	trans-1,4-Dichloro-2-butene	ug/l	G2	5			< 1								< 1							
R22S	Trichloroethene	ug/l	G2	10			< 1								< 1							
R22S	Trichlorofluoromethane	ug/l	G2	5			< 1								< 1							
R22S	Vinyl acetate	ug/l	G2	10			< 5								< 5							
R22S	Vinyl chloride	ug/l	G2	2			< 2								< 2							
R22S	Xylenes (Total)	ug/l	G2	5			< 2								< 2							

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	2ndQtr05	2ndQtr05re	3rdQtr05	3rdQtr05re	4thQtr05	4thQtr05re	1stQtr06	1stQtr06re	2ndQtr06	2ndQtr06re	3rdQtr06	3rdQtr06re	4thQtr06	4thQtr06re	1stQtr07	1stQtr07re
R28D	Ammonia as N, dissolved	mg/l	G1	1.481			< 0.09		< 0.1		Q< 0.1		< 0.1		< 0.09		< 0.09		< 0.09		< 0.09	
R28D	Arsenic, Dissolved	ug/l	G1	3.801			< 1		< 1		< 1		< 1		< 1		< 1		< 1		< 1	
R28D	Boron, Dissolved	ug/l	G1	147.619			19		17		< 10		22		19		20		20		18	
R28D	Cadmium, Dissolved	ug/l	G1	3.264			< 1		< 1		< 1		< 1		< 1		< 1		< 1		< 1	
R28D	Chloride, Dissolved	mg/l	G1	200			38		39		39		35		38		37		39		38	
R28D	Chromium, dissolved	ug/l	G1	19																		
R28D	Cyanide, Total	mg/l	G1	0.005			< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005	
R28D	Lead, Dissolved	ug/l	G1	1			< 1		< 1		< 1		< 1		< 1		< 1		< 1		< 1	
R28D	Magnesium, dissolved	mg/l	G1	160																		
R28D	Mercury, dissolved	ug/l	G1	0.2																		
R28D	Nitrate as N, dissolved	mg/l	G1	17.14			9.8		9.4		10		9.5		H 11		9		10		11	
R28D	pH (field)	units	G1	4.9 - 9.8			6.9		7.17		7.2		6.97		7.64		7.21		6.98		7.22	
R28D	Specific Conductance (field)	umhos	G1	2029.99			490		792		654		849		784		668		679		650	
R28D	Sulfate, Dissolved	mg/l	G1	420			42		46		47		37		39		36		40		36	
R28D	Total Dissolved Solids, filtered	mg/l	G1	1310.39			480		530		530		500		440		510		450		490	
R28D	Zinc, Dissolved	ug/l	G1	204.21			< 6		< 6		< 6		< 6		< 6		< 6		< 6		< 6	
R28D	1,1,1,2-Tetrachloroethane	ug/l	G2	5			< 1								< 1							
R28D	1,1,1-Trichloroethane	ug/l	G2	5			< 1								< 1							
R28D	1,1,2,2-Tetrachloroethane	ug/l	G2	5			< 1								< 1							
R28D	1,1,2-Trichloroethane	ug/l	G2	5			< 1								< 1							
R28D	1,1-Dichloroethane	ug/l	G2	5			< 1								< 1							
R28D	1,1-Dichloroethene	ug/l	G2	5			< 1								< 1							
R28D	1,1-Dichloropropene	ug/l	G2	5			< 1								< 1							
R28D	1,2,3-Trichlorobenzene	ug/l	G2	5			< 1								< 1							
R28D	1,2,3-Trichloropropane	ug/l	G2	5			< 1								< 1							
R28D	1,2,4-Trichlorobenzene	ug/l	G2	5			< 1								< 1							
R28D	1,2,4-Trimethylbenzene	ug/l	G2	5			< 5								< 5							
R28D	1,2-Dibromo-3-chloropropane	ug/l	G2	5			< 0.05								< 0.05							
R28D	1,2-Dibromoethane (EDB)	ug/l	G2	5			< 0.05								< 0.05							
R28D	1,2-Dichlorobenzene	ug/l	G2	5			< 1								< 1							
R28D	1,2-Dichloroethane	ug/l	G2	5			< 1								< 1							
R28D	1,2-Dichloropropane	ug/l	G2	5			< 1								< 1							
R28D	1,3,5-Trimethylbenzene	ug/l	G2	5			< 1								< 1							
R28D	1,3-Dichlorobenzene	ug/l	G2	5			< 1								< 1							
R28D	1,3-Dichloropropane	ug/l	G2	5			< 1								< 1							
R28D	1,3-Dichloropropene	ug/l	G2	5			< 2								< 2							
R28D	1,4-Dichlorobenzene	ug/l	G2	5			< 1								< 1							
R28D	2,2-Dichloropropane	ug/l	G2	5			< 1								< 1							
R28D	2-Butanone (MEK)	ug/l	G2	10			< 5								< 5							
R28D	2-Chlorotoluene	ug/l	G2	1			< 1								< 1							
R28D	2-Hexanone (MBK)	ug/l	G2	50			< 5								< 5							
R28D	4-Chlorotoluene	ug/l	G2	1			< 1								< 1							
R28D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10			< 5								< 5							
R28D	Acetone	ug/l	G2	100			< 10								< 10							
R28D	Acrylonitrile	ug/l	G2	10			< 5								< 5							
R28D	Benzene	ug/l	G2	5			< 1								< 1							
R28D	Bromobenzene	ug/l	G2	5			< 1								< 1							
R28D	Bromochloromethane	ug/l	G2	5			< 1								< 1							
R28D	Bromodichloromethane	ug/l	G2	5			< 1								< 1							
R28D	Bromoform	ug/l	G2	5			< 1								< 1							
R28D	Bromomethane	ug/l	G2	10			< 2								< 2							
R28D	Carbon disulfide	ug/l	G2	5			< 1								< 1							
R28D	Carbon tetrachloride	ug/l	G2	5			< 1								< 1							
R28D	Chlorobenzene	ug/l	G2	5			< 1								< 1							
R28D	Chloroethane	ug/l	G2	10			< 2								< 2							
R28D	Chloroform	ug/l	G2	5			< 1								< 1							
R28D	Chloromethane	ug/l	G2	10			< 2								< 2							
R28D	cis-1,2-Dichloroethene	ug/l	G2	5			< 1								< 1							
R28D	cis-1,3-Dichloropropene	ug/l	G2	5			< 1								< 1							
R28D	Dibromochloromethane	ug/l	G2	5			< 1								< 1							
R28D	Dibromomethane	ug/l	G2	5			< 1								< 1							
R28D	Dichlorodifluoromethane	ug/l	G2	5			< 2								< 2							
R28D	Ethylbenzene	ug/l	G2	5			< 1								< 1							
R28D	Hexachlorobutadiene	ug/l	G2	10			<W 10								< 10							
R28D	Iodomethane	ug/l	G2	1			< 1								< 1							
R28D	Isopropylbenzene	ug/l	G2	5			< 1								< 1							
R28D	Methylene Chloride	ug/l	G2	10			< 5								< 5							
R28D	Naphthalene	ug/l	G2	10			<W 10								< 10							
R28D	n-Butylbenzene	ug/l	G2	5			< 1								< 1							
R28D	n-Propylbenzene	ug/l	G2	5			< 1								< 1							
R28D	Oil (Hexane Soluble)	mg/l	G2	5			< 5								< 5							
R28D	Phenolics	ug/l	G2	5			< 5		< 5		< 5		< 5		< 5		< 5		< 5		< 5	
R28D	p-Isopropyltoluene	ug/l	G2	5			< 1								< 1							
R28D	sec-Butylbenzene	ug/l	G2	5			< 1								< 1							
R28D	Styrene	ug/l	G2	5			< 1								< 1							
R28D	tert-Butylbenzene	ug/l	G2	5			< 1								< 1							
R28D	Tetrachloroethene	ug/l	G2	5			< 1								< 1							
R28D	Tetrahydrofuran	ug/l	G2	7			< 5								< 5							
R28D	Toluene	ug/l	G2	5			< 1								< 1							
R28D	trans-1,2-Dichloroethene	ug/l	G2	5			< 1								< 1							
R28D	trans-1,3-Dichloropropene	ug/l	G2	5			< 1								< 1							
R28D	trans-1,4-Dichloro-2-butene	ug/l	G2	5			< 1								< 1							
R28D	Trichloroethene	ug/l	G2	10			< 1								< 1							
R28D	Trichlorofluoromethane	ug/l	G2	5			< 1								< 1							
R28D	Vinyl acetate	ug/l	G2	10			< 5								< 5							
R28D	Vinyl chloride	ug/l	G2	2			< 2								< 2							
R28D	Xylenes (Total)	ug/l	G2	5			< 2								< 2							

Notes:
A highlighted cell indicates an exceedence.
indicates parameter being addressed by either pending Application
Log No. 2010-152 or Log No. 2010-373.

Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	2ndQtr07	2ndQtr07re	3rdQtr07	4thQtr07	4thQtr07re	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10
R22S	Ammonia as N, dissolved	mg/l	G1	1.481			< 0.9		< 0.09	< 0.09		< 0.09		< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	
R22S	Arsenic, Dissolved	ug/l	G1	3.801			1.8		1.7	2.6		1.4		2.1	1.4	1.8	2	< 1	< 1	< 1	< 1	< 1	
R22S	Boron, Dissolved	ug/l	G1	147.619			< 10		24	24		18		20	20	29	29	36	50	< 10	19	11	31
R22S	Cadmium, Dissolved	ug/l	G1	3.264			< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
R22S	Chloride, Dissolved	mg/l	G1	200		#	570	560	590	530	540	570	610	600	540	600	700	600	810	890	870	840	870
R22S	Chromium, dissolved	ug/l	G1	19		#								17	19	16	18	24	26	24	20	38	
R22S	Cyanide, Total	mg/l	G1	0.005			< 0.005		< 0.005	< 0.005		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
R22S	Lead, Dissolved	ug/l	G1	1			< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
R22S	Magnesium, dissolved	mg/l	G1	160										100	100	100	100	120	120	130	120	120	
R22S	Mercury, dissolved	ug/l	G1	0.2										< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
R22S	Nitrate as N, dissolved	mg/l	G1	17.14			0.24		H 0.029	< 0.02		0.041		< 0.02	< 0.02	0.037	< 0.02	0.03	< 0.02	< 0.02	0.037	< 0.02	0.055
R22S	pH (field)	units	G1	4.9 - 9.8			7.11		6.77	7.39	6.69	7.14	6.45	7.65	7.09	7.79	7.49	7.03	7.34	6.39	7.53	7.07	7.65
R22S	Specific Conductance (field)	umhos	G1	2029.99			1422		992	1485	1782	2585	1235	564	810	715	1747	2710	749	938	1571	3200	1209
R22S	Sulfate, Dissolved	mg/l	G1	420			22		31	28		27		25	28	27	28	30	29	31	30	26	29
R22S	Total Dissolved Solids, filtered	mg/l	G1	1310.39	2105.394		1500	920	1700	1400	2000	1300		1500	1600	1300	1300	1600	1800	1900	1800	2400	2400
R22S	Zinc, Dissolved	ug/l	G1	204.21			< 6		< 6	< 6		< 6		< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	
R22S	1,1,1,2-Tetrachloroethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,1,1-Trichloroethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,1,2,2-Tetrachloroethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,1,2-Trichloroethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,1-Dichloroethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,1-Dichloroethene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,1-Dichloropropene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,2,3-Trichlorobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,2,3-Trichloropropane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,2,4-Trichlorobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,2,4-Trimethylbenzene	ug/l	G2	5			F< 5							< 5		< 1	< 1	< 1		< 1		< 1	
R22S	1,2-Dibromo-3-chloropropane	ug/l	G2	5			< 0.05							< 0.05		< 0.05	< 0.05	< 0.05		< 0.05		< 0.05	
R22S	1,2-Dibromoethane (EDB)	ug/l	G2	5			< 0.05							< 0.05		< 0.05	< 0.05	< 0.05		< 0.05		< 0.05	
R22S	1,2-Dichlorobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,2-Dichloroethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,2-Dichloropropane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,3,5-Trimethylbenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,3-Dichlorobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,3-Dichloropropane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	1,3-Dichloropropene	ug/l	G2	5			F< 2							< 2		< 1	< 1	< 1		< 1		< 1	
R22S	1,4-Dichlorobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	2,2-Dichloropropane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	2-Butanone (MEK)	ug/l	G2	10			F< 5							< 5		< 5	< 5	< 5		< 5		< 5	
R22S	2-Chlorotoluene	ug/l	G2	1			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	2-Hexanone (MBK)	ug/l	G2	50			F< 5							< 5		< 5	< 1	< 1		< 1		< 1	
R22S	4-Chlorotoluene	ug/l	G2	1			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10			F< 5							< 5		< 5	< 5	< 5		< 5		< 5	
R22S	Acetone	ug/l	G2	100			F< 10							< 10		< 10	< 5	< 5		< 5		< 5	
R22S	Acrylonitrile	ug/l	G2	10			F< 5							< 5		< 50	< 5	< 5		< 5		< 5	
R22S	Benzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Bromobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Bromochloromethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Bromodichloromethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Bromoform	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Bromomethane	ug/l	G2	10			F< 2							< 2		< 2	< 2	< 2		< 2		< 2	
R22S	Carbon disulfide	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Carbon tetrachloride	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Chlorobenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Chloroethane	ug/l	G2	10			F< 2							< 2		< 2	< 2	< 2		< 2		< 2	
R22S	Chloroform	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Chloromethane	ug/l	G2	10			F< 2							< 2		< 2	< 2	< 2		< 2		< 2	
R22S	cis-1,2-Dichloroethene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	cis-1,3-Dichloropropene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Dibromochloromethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Dibromomethane	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Dichlorodifluoromethane	ug/l	G2	5			F< 2							< 2		< 2	< 1	< 1		< 1		< 1	
R22S	Ethylbenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Hexachlorobutadiene	ug/l	G2	10			< 10							< 10		< 2	< 2	< 2		< 2		< 2	
R22S	Iodomethane	ug/l	G2	1			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Isopropylbenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Methylene Chloride	ug/l	G2	10			F< 5							< 5		< 5	< 2.5	< 2.5		< 2.5		< 2.5	
R22S	Naphthalene	ug/l	G2	10			< 10							< 10		< 5	< 5	< 5		< 5		< 5	
R22S	n-Butylbenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	n-Propylbenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Oil (Hexane Soluble)	mg/l	G2	5			< 5							< 5		< 5	< 6	< 5		< 5		< 5	
R22S	Phenolics	ug/l	G2	5			< 5		< 5	< 5		< 5		< 5		< 5	< 5	< 5		< 5		< 5	
R22S	p-Isopropyltoluene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	sec-Butylbenzene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	Styrene	ug/l	G2	5			F< 1							< 1		< 1	< 1	< 1		< 1		< 1	
R22S	tert-Butylbenzene	ug/l	G2	5																			

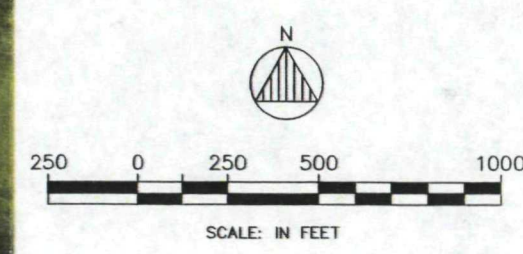
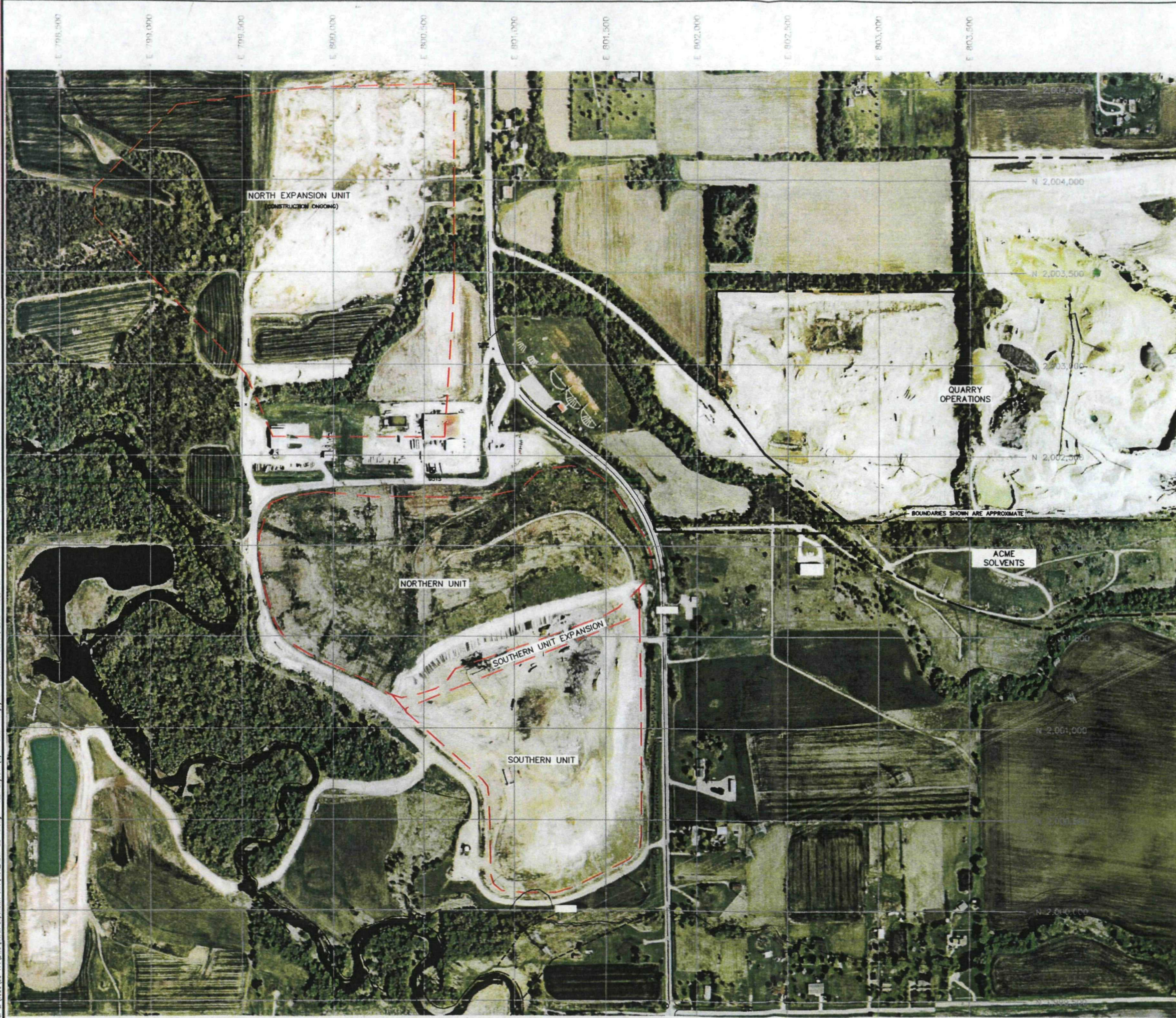
Table 2
Winnebago Landfill
Southern Unit Analytical
R22S, R28D

Well ID	Parameter	Units	GW List	AGQS	Intrawell	Addressed	2ndQtr07	2ndQtr07re	3rdQtr07	4thQtr07	4thQtr07re	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10
R28D	Ammonia as N, dissolved	mg/l	G1	1.481			< 0.09		< 0.09	< 0.09		0.21		0.66	0.67	0.46	0.2	0.39	0.39	0.28	0.19	0.19	0.26
R28D	Arsenic, Dissolved	ug/l	G1	3.801			< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1	11	2.3	4.3	5.8
R28D	Boron, Dissolved	ug/l	G1	147.619			47		120	130		82		37	35	68	54	38	28	20	33	16	36
R28D	Cadmium, Dissolved	ug/l	G1	3.264			< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
R28D	Chloride, Dissolved	mg/l	G1	200			60		65	50		46		43	56	55	47	53	48	61	61	62	57
R28D	Chromium, dissolved	ug/l	G1	19											< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
R28D	Cyanide, Total	mg/l	G1	0.005			< 0.005		< 0.005	< 0.005		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
R28D	Lead, Dissolved	ug/l	G1	1			< 1		< 1	< 1		< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
R28D	Magnesium, dissolved	mg/l	G1	160											62	48	47	56	68	100	75	84	73
R28D	Mercury, dissolved	ug/l	G1	0.2											< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
R28D	Nitrate as N, dissolved	mg/l	G1	17.14			10		8.7	9.7		11		10	7.6	9.9	11	11	8.7	1.1	2.3	2.6	2.4
R28D	pH (field)	units	G1	4.9 - 9.8			7.22		7.8	7.2	6.67	7.51		6.94	6.89	7.51	7.29	6.91	7.4	6.9	6.72	6.83	6.95
R28D	Specific Conductance (field)	umhos	G1	2029.99			851		829	765	798	662		756	559	581	833	345	571	680	955	1202	907
R28D	Sulfate, Dissolved	mg/l	G1	420			39		38	40		37		36	31	40	31	31	38	67	52	61	56
R28D	Total Dissolved Solids, filtered	mg/l	G1	1310.39			580		660	550		470		470	640	500	440	530	640	1000	820	870	880
R28D	Zinc, Dissolved	ug/l	G1	204.21			< 6		< 6	< 6		< 6		< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
R28D	1,1,1,2-Tetrachloroethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,1,1-Trichloroethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,1,2,2-Tetrachloroethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,1,2-Trichloroethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,1-Dichloroethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,1-Dichloroethene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,1-Dichloropropene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,2,3-Trichlorobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,2,3-Trichloropropane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,2,4-Trichlorobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,2,4-Trimethylbenzene	ug/l	G2	5			X< 5							< 5		< 1		< 1		< 1		< 1	
R28D	1,2-Dibromo-3-chloropropane	ug/l	G2	5			< 0.05							< 2		< 0.05		< 0.05		< 0.05		< 0.05	
R28D	1,2-Dibromoethane (EDB)	ug/l	G2	5			< 0.05							< 0.5		< 0.05		< 0.05		< 0.05		< 0.05	
R28D	1,2-Dichlorobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,2-Dichloroethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,2-Dichloropropane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,3,5-Trimethylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,3-Dichlorobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,3-Dichloropropane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	1,3-Dichloropropene	ug/l	G2	5			X< 2							< 2		< 1		< 1		< 1		< 1	
R28D	1,4-Dichlorobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	2,2-Dichloropropane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	2-Butanone (MEK)	ug/l	G2	10			X< 5							< 5		< 5		< 5		< 5		< 5	
R28D	2-Chlorotoluene	ug/l	G2	1			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	2-Hexanone (MBK)	ug/l	G2	50			X< 5							< 5		< 5		< 1		< 1		< 1	
R28D	4-Chlorotoluene	ug/l	G2	1			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	4-Methyl-2-pentanone (MIBK)	ug/l	G2	10			X< 5							< 5		< 5		< 5		< 5		< 5	
R28D	Acetone	ug/l	G2	100			X< 10							< 10		< 10		< 5		< 5		< 5	
R28D	Acrylonitrile	ug/l	G2	10			X< 5							< 5		< 50		< 5		< 5		< 5	
R28D	Benzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Bromobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Bromochloromethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Bromodichloromethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Bromoform	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Bromomethane	ug/l	G2	10			X< 2							< 2		< 2		< 2		< 2		< 2	
R28D	Carbon disulfide	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Carbon tetrachloride	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Chlorobenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Chloroethane	ug/l	G2	10			X< 2							< 2		< 2		< 2		< 2		< 2	
R28D	Chloroform	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Chloromethane	ug/l	G2	10			X< 2							< 2		< 2		< 2		< 2		< 2	
R28D	cis-1,2-Dichloroethene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	cis-1,3-Dichloropropene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Dibromochloromethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Dibromomethane	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Dichlorodifluoromethane	ug/l	G2	5			X< 2							< 2		< 2		< 1		< 1		< 1	
R28D	Ethylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Hexachlorobutadiene	ug/l	G2	10			< 10							< 10		< 2		< 2		< 2		< 2	
R28D	Iodomethane	ug/l	G2	1			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Isopropylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Methylene Chloride	ug/l	G2	10			X< 5							< 5		< 5		< 2.5		< 2.5		< 2.5	
R28D	Naphthalene	ug/l	G2	10			< 10							< 10		< 5		< 5		< 5		< 5	
R28D	n-Butylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	n-Propylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Oil (Hexane Soluble)	mg/l	G2	5			< 5							< 6		< 5		< 6		< 6		< 6	
R28D	Phenolics	ug/l	G2	5			< 5		< 5	< 5		< 5		< 5		< 5		< 5		< 5		< 5	
R28D	p-Isopropyltoluene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	sec-Butylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Styrene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	tert-Butylbenzene	ug/l	G2	5			X< 1							< 1		< 1		< 1		< 1		< 1	
R28D	Tetrachloroethene	ug/l	G2	5			X< 1							< 1		< 1		< 1		&			

FIGURES

© 2010 Andrews Engineering, Inc.

File: J:\9900\90-114\DWG\North Expansion Unit\FIG1_REV7-22-10.dwg User: mnguyen Plotted: Oct 07, 2010 - 11:09 PM



NOTE:
BACKGROUND IMAGE EXTRACTED FROM GOOGLE EARTH,
APRIL 23, 2006.

LEGEND	
	CURRENTLY PERMITTED FILL BOUNDARY

FIG. 2		SHEET NUMBER:		PROJECT ID: 90-114		DATE: AUGUST 2010	
		PLANS PREPARED FOR WINNEBAGO LANDFILL ROCKFORD, WINNEBAGO COUNTY, ILLINOIS					
		ANDREWS ENGINEERING, INC. 3300 Ginger Creek Drive, Springfield, IL 62711-7233 Tel: 217-255-1100 Fax: 217-255-1101 Peoria, IL • Moline, IL • Springfield, IL • Rockford, IL • Winnebago, IL		DESIGNED BY: TNS		DRAWN BY: MPN	
				APPROVED BY: TNS		DATE: 5/11/10	
REVISIONS		DESCRIPTION		BY			
1		ADDED COORDINATE SYSTEM GRID		REV			

APPENDIX A

APPLICATION FORMS



Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

Certification of Authenticity of Official Forms

This form must accompany any application submitted to the Illinois EPA Bureau of Land, Division of Land Pollution Control, Permit Section on forms other than the official copy printed and provided by the Illinois EPA. The only allowed changes to the form are in spacing, fonts, and the addition of the information provided. Any additions must be underlined. The forms would not be considered identical if there is any change to, addition or deletion of words on the form or to the language of the form.

The same individuals that sign the application form it accompanies must sign the following certification.

I hereby certify under penalty of law that I have personally examined, and am familiar with the application form or forms and all included supplemental information submitted to the Illinois EPA herewith, and that the official Illinois Environmental Protection Agency application form or forms used herein is or are identical in all respects to the official form or forms provided by the Illinois EPA Bureau of Land Permit Section, and has not or have not been altered, amended, or otherwise modified in any way. I further certify under penalty of law that any attached or included electronic data version of the application form or forms complies with the official Illinois EPA's Electronic version thereof, and is or are identical in all respects to the official electronically downloadable form or forms provided by the Illinois EPA Bureau of Land Permit Section, and has not or have not been altered, amended or otherwise modified in any way.

By: _____

Owner Signature

10-12-2010

(date)

Title

By: _____

Operator Signature

10-12-2010

(date)

Title

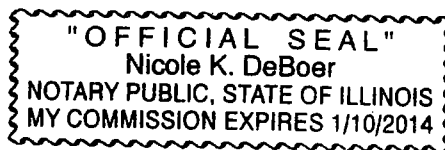
Engineer Signature
(if necessary)

10/13/10

(date)

Subscribed and Sworn to Before Me,
a Notary Public in and for the
above-mentioned County and State.

Notary Public



My Commission Expires: _____

1/10/2014

[Notary Seal]



Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

GENERAL APPLICATION FOR PERMIT (LPC-PA1)

This form must be used for any application for permit, except for landscape waste composting or hazardous waste management facilities regulated in accordance with RCRA, Subtitle C from the Bureau of Land. One original and two (2) photocopies, or three (3) if applicable, of all permit application forms must be submitted. Attach the original and appropriate number of copies of any necessary plans, specifications, reports, etc. to fully support and describe the activities or modifications being proposed. Attach sufficient information to demonstrate compliance with all applicable regulatory requirements. Incomplete applications will be rejected. Please refer to the instructions for further guidance.

Note: Permit applications which are hand-delivered to the Bureau of Land, Permit Section must be delivered to 1021 North Grand Avenue East between the hours of 8:30 a.m. to 5:00 p.m., Monday through Friday (excluding State holidays).

Please type or print legibly.

I. SITE IDENTIFICATION

Name: Winnebago Landfill Site # (Illinois EPA): 2018080001
Physical Site Location (street, road, etc.): 8403 Lindenwood Road
City, Zip Code: Rockford, 61109 County: Winnebago
Existing DE/OP Permit Nos. (if applicable): 1991-138-LF

II. OWNER/OPERATOR IDENTIFICATION

OWNER

OPERATOR

Name: Winnebago Landfill Company, LLC Winnebago Reclamation Service, Inc.
Address: 5450 Wansford Way 5450 Wansford Way
Suite 201B Suite 201B
Rockford, IL 61109 Rockford, IL 61109
Contact Name: Tom Hilbert Tom Hilbert
Phone #: (815) 963-7516 (815) 963-7516

III. PERMIT APPLICATION IDENTIFICATION

TYPE SUBMISSION/REVIEW PERIOD:

- ☐ New Landfill/180 days (35 IAC Part 813)
- ☐ Landfill Expansion/180 days (35 IAC Part 813)
- ☐ Sign. Mod to Operate/90 days (35 IAC Part 813)
- ☒ Other Sign. Mod/90 days (35 IAC Part 813)
- ☐ Renewal of Landfill 90 days (35 IAC Part 813)
- ☐ Developmental/90 days (35 IAC Part 807)
- ☐ Operating/45 days (35 IAC Part 807)
- ☐ Supplemental/90 days (35 IAC Part 807)
- ☐ Permit Transfer/90 days (35 IAC Part 807)
- ☐ Renewal of Experimental Permit (35 IAC Part 807)

TYPE FACILITY:

- ☒ Landfill
- ☐ Land Treatment
- ☐ Transfer Station
- ☐ Treatment
- ☐ Storage
- ☐ Incinerator
- ☐ Composting
- ☐ Recycling/Reclamation
- ☐ Other (Specify) _____

TYPE WASTE:

- ☒ General Municipal Refuse
- ☐ Hazardous
- ☒ Special (Non-hazardous)
- ☐ Chemical Only (exc. putrescible)
- ☐ Inert Only (exc. chemical and putrescible)
- ☐ Used Oil
- ☐ Potentially Infectious Medical Waste
- ☐ Landscape Waste
- ☐ Other (Specify) _____

DESCRIPTION OF THIS PERMIT REQUEST: (Include a brief narrative description here.)

Alternate source demonstration in accordance with Condition VIII.15 (Modification No. 42).

IV. COMPLETENESS REQUIREMENTS

The following items must be checked Yes, No or N/A. Each item will be reviewed by the log clerk. Blank items will result in rejection of the application. Please refer to the instructions for further guidance.

1. Have all required public notice letters been mailed in accordance with the LPC-PA16 instructions? ☒ Yes ☐ No ☐ N/A
(If so, provide a list of those recipients of the required public notice letters for Illinois EPA retention.)
Such retention shall not imply any Illinois EPA review and/or confirmation of the list.)
2. a. Is the Siting Certification Form (LPC-PA8) completed and enclosed? ☐ Yes ☐ No ☒ N/A
b. Is siting approval currently under litigation? ☐ Yes ☒ No ☐ N/A
3. a. Is a closure, and if necessary a post closure, plan covering these activities being submitted, or
b. has one already been approved? (Provide permit number 1991-138-LF.) ☒ Yes ☐ No ☐ N/A
4. a. For waste disposal sites only: Has any employee, owner, operator, officer or director of the owner
or operator had a prior conduct certification denied, canceled or revoked? ☐ Yes ☒ No ☐ N/A
b. Have you included a demonstration of how you comply or intend to comply with
35 Ill. Adm. Code Part 745? ☐ Yes ☐ No ☒ N/A
5. a. Is land ownership held in beneficial trust? ☐ Yes ☒ No ☐ N/A
b. If yes, is a beneficial trust certification form (LPC-PA9) completed and enclosed? ☐ Yes ☐ No ☒ N/A
6. a. Does the application contain information or proposals regarding the hydrogeology; groundwater
monitoring, modeling or classification; a groundwater impact assessment; or vadose zone
monitoring for which you are requesting approval? ☒ Yes ☐ No ☐ N/A
b. If yes, have you submitted a third (3rd) copy of the application (4 total) and supporting documents? ☒ Yes

V. SIGNATURES (Original signatures required. Signature stamps or applications transmitted electronically or by facsimile are not acceptable.)

All applications shall be signed by the person designated below as a duly authorized representative of the owner and/or operator.
Corporation - By a principal executive officer of at least the level of vice-president.
Partnership or Sole Proprietorship - By a general partner or the proprietor, respectively.
Government - By either a principal executive officer or a ranking elected official.

A person is a duly authorized representative of the owner and operator only if:

1. They meet the criteria above or the authorization has been granted in writing by a person described above; and
2. is submitted with this application (a copy of a previously submitted authorization can be used).

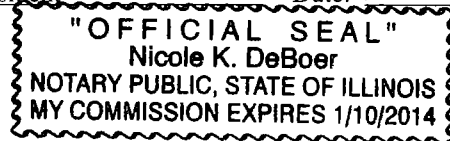
I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

I do herein swear that I am a duly authorized representative of owner/operator and I am authorized to sign this permit application form.

Owner Signature: [Signature] Title: Vice President Date: 10-12-2010
Owner FEIN or S.S. Number: 36-2917437

Operator Signature: [Signature] Title: Vice President Date: 10-12-2010
Operator FEIN or S.S. Number: 36-2917437

Notary: Subscribe and swear before me this 12th day of October 2010
Notary Signature: [Signature] Notary Seal:
My commission expires on: 1/10/2014



Engineer Signature: [Signature] Title: Project Engineer Date: 10/13/10
Engineer Address: Andrews Engineering, Inc.
3300 Ginger Creek Drive
Springfield, Illinois 62711-9405
Engineer Seal: [Seal]

Engineer Phone No. (217) 787-2334

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as a trade secret or secret process in accordance with Section 10(b)(3) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.



Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

Senator Dave Syverson
Senate District 34

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

200 South Wyman St, Ste 302
Rockford, IL 61101

Date: OCT 14 2010

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

The permit application, which is identified below, is for a project described at the bottom of this page.

SITE IDENTIFICATION

Site Name: Winnebago Reclamation Service, Inc.

Site # (IEPA): 2018080001

Address: 8403 Lindenwood Road

City: Rockford, Illinois 61109

County: Winnebago

TYPE PERMIT SUBMISSIONS:

New Landfill	<input type="checkbox"/>
Landfill Expansion	<input type="checkbox"/>
First Significant Modification	<input type="checkbox"/>
Significant Modification to Operate	<input type="checkbox"/>
Other Significant Modification	<input checked="" type="checkbox"/>
Renewal of Landfill	<input type="checkbox"/>
Development	<input type="checkbox"/>
Operating	<input type="checkbox"/>
Supplemental	<input type="checkbox"/>
Transfer	<input type="checkbox"/>
Name Change	<input type="checkbox"/>
Generic	<input type="checkbox"/>

TYPE FACILITY:

Landfill	<input checked="" type="checkbox"/>
Land Treatment	<input type="checkbox"/>
Transfer Station	<input type="checkbox"/>
Treatment Facility	<input type="checkbox"/>
Storage	<input type="checkbox"/>
Incinerator	<input type="checkbox"/>
Composting	<input type="checkbox"/>
Recycling/Reclamation	<input type="checkbox"/>
Other	<input type="checkbox"/>

TYPE WASTE:

General Municipal Refuse	<input checked="" type="checkbox"/>
Hazardous	<input type="checkbox"/>
Special (Non-Hazardous) Chemical Only (exec. putrescible)	<input checked="" type="checkbox"/>
Inert Only (exec. chem. & putrescible)	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>
Solvents	<input type="checkbox"/>
Landscape/Yard Waste	<input type="checkbox"/>
Other (Specify _____)	<input type="checkbox"/>

DESCRIPTION OF PROJECT:

Alternate source demonstration in accordance with Condition VIII.15 (Modification No. 42).

Please retain a copy for your own use.

jab\002711i.doc
IL 532 0334
LPC 040 Rev. Feb. 03

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.



Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

Representative Charles E. J. [unclear]
Representative District 67
200 South Wyman, Ste 304
Rockford, IL 61101

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: OCT 14 2010

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

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SITE IDENTIFICATION

Site Name: Winnebago Reclamation Service, Inc.

Site # (IEPA): 2018080001

Address: 8403 Lindenwood Road

City: Rockford, Illinois 61109

County: Winnebago

TYPE PERMIT SUBMISSIONS:

TYPE FACILITY:

TYPE WASTE:

New Landfill	<input type="checkbox"/>	Landfill	<input checked="" type="checkbox"/>	General Municipal Refuse	<input checked="" type="checkbox"/>
Landfill Expansion	<input type="checkbox"/>	Land Treatment	<input type="checkbox"/>	Hazardous	<input type="checkbox"/>
First Significant Modification	<input type="checkbox"/>	Transfer Station	<input type="checkbox"/>	Special (Non-Hazardous) Chemical Only	<input checked="" type="checkbox"/>
Significant Modification to Operate	<input type="checkbox"/>	Treatment Facility	<input type="checkbox"/>	(exec. putrescible)	<input type="checkbox"/>
Other Significant Modification	<input checked="" type="checkbox"/>	Storage	<input type="checkbox"/>	Inert Only	<input type="checkbox"/>
Renewal of Landfill	<input type="checkbox"/>	Incinerator	<input type="checkbox"/>	(exec. chem. & putrescible)	<input type="checkbox"/>
Development	<input type="checkbox"/>	Composting	<input type="checkbox"/>	Used Oil	<input type="checkbox"/>
Operating	<input type="checkbox"/>	Recycling/Reclamation	<input type="checkbox"/>	Solvents	<input type="checkbox"/>
Supplemental	<input type="checkbox"/>	Other	<input type="checkbox"/>	Landscape/Yard Waste	<input type="checkbox"/>
Transfer	<input type="checkbox"/>			Other (Specify _____)	<input type="checkbox"/>
Name Change	<input type="checkbox"/>				
Generic	<input type="checkbox"/>				

DESCRIPTION OF PROJECT:

Alternate source demonstration in accordance with Condition VIII.15 (Modification No. 42).

Please retain a copy for your own use.

jab\0027111.doc
IL 532 0334
LPC 040 Rev Feb. 03

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.



Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Philip A. Nicolosi
State's Attorney
400 West State Street
Rockford, IL 61101

Date: OCT 14 2010

To Elected Officials and Concerned Citizens:

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Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

The permit application, which is identified below, is for a project described at the bottom of this page.

SITE IDENTIFICATION

Site Name: Winnebago Reclamation Service, Inc.

Site # (IEPA): 2018080001

Address: 8403 Lindenwood Road

City: Rockford, Illinois 61109

County: Winnebago

TYPE PERMIT SUBMISSIONS:

New Landfill	<input type="checkbox"/>
Landfill Expansion	<input type="checkbox"/>
First Significant Modification	<input type="checkbox"/>
Significant Modification to Operate	<input type="checkbox"/>
Other Significant Modification	<input checked="" type="checkbox"/>
Renewal of Landfill	<input type="checkbox"/>
Development	<input type="checkbox"/>
Operating	<input type="checkbox"/>
Supplemental	<input type="checkbox"/>
Transfer	<input type="checkbox"/>
Name Change	<input type="checkbox"/>
Generic	<input type="checkbox"/>

TYPE FACILITY:

Landfill	<input checked="" type="checkbox"/>
Land Treatment	<input type="checkbox"/>
Transfer Station	<input type="checkbox"/>
Treatment Facility	<input type="checkbox"/>
Storage	<input type="checkbox"/>
Incinerator	<input type="checkbox"/>
Composting	<input type="checkbox"/>
Recycling/Reclamation	<input type="checkbox"/>
Other	<input type="checkbox"/>

TYPE WASTE:

General Municipal Refuse	<input checked="" type="checkbox"/>
Hazardous	<input type="checkbox"/>
Special (Non-Hazardous) Chemical Only (exec. putrescible)	<input checked="" type="checkbox"/>
Inert Only (exec. chem. & putrescible)	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>
Solvents	<input type="checkbox"/>
Landscape/Yard Waste	<input type="checkbox"/>
Other (Specify _____)	<input type="checkbox"/>

DESCRIPTION OF PROJECT:

Alternate source demonstration in accordance with Condition VIII.15 (Modification No. 42).

Please retain a copy for your own use.

jab\002711i.doc
IL 532 0334
LPC 040 Rev. Feb. 03

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.



Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Scott Christiansen

County Chairman

04 Elm Street, Room 504

Rockford, IL 61109

Date: OCT 14 2010

To: Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

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Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

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Address: 8403 Lindenwood Road

City: Rockford, Illinois 61109

County: Winnebago

TYPE PERMIT SUBMISSIONS:

New Landfill	<input type="checkbox"/>
Landfill Expansion	<input type="checkbox"/>
First Significant Modification	<input type="checkbox"/>
Significant Modification to Operate	<input type="checkbox"/>
Other Significant Modification	<input checked="" type="checkbox"/>
Renewal of Landfill Development	<input type="checkbox"/>
Operating Supplemental Transfer	<input type="checkbox"/>
Name Change	<input type="checkbox"/>
Generic	<input type="checkbox"/>

TYPE FACILITY:

Landfill	<input checked="" type="checkbox"/>
Land Treatment	<input type="checkbox"/>
Transfer Station	<input type="checkbox"/>
Treatment Facility	<input type="checkbox"/>
Storage	<input type="checkbox"/>
Incinerator	<input type="checkbox"/>
Composting	<input type="checkbox"/>
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Landscape/Yard Waste	<input type="checkbox"/>
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Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

New Milford Village Clerk
6771 11th Street
Rockford, IL 61109

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: OCT 14 2010

To Elected Officials and Concerned Citizens:

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Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

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First Significant Modification	<input type="checkbox"/>
Significant Modification to Operate	<input type="checkbox"/>
Other Significant Modification	<input checked="" type="checkbox"/>
Renewal of Landfill Development	<input type="checkbox"/>
Operating Supplemental	<input type="checkbox"/>
Transfer	<input type="checkbox"/>
Name Change	<input type="checkbox"/>
Generic	<input type="checkbox"/>

TYPE FACILITY:

Landfill	<input checked="" type="checkbox"/>
Land Treatment	<input type="checkbox"/>
Transfer Station	<input type="checkbox"/>
Treatment Facility	<input type="checkbox"/>
Storage	<input type="checkbox"/>
Incinerator	<input type="checkbox"/>
Composting	<input type="checkbox"/>
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Used Oil	<input type="checkbox"/>
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DESCRIPTION OF PROJECT:

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Illinois
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Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

Cherry Valley Township Clerk
4875 Blackhawk Road
Rockford, IL 61109

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: OCT 14 2010

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Transfer Station	<input type="checkbox"/>
Treatment Facility	<input type="checkbox"/>
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Illinois
Environmental
Protection Agency

Bureau of Land
1021 North Grand Avenue East
Box 19276
Springfield, IL 62794-9276

Village of Davis Junction NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

106 North Elm St
PO Box 207
Davis Junction, IL 61020

Date: OCT 14 2010

To Elected Officials and Concerned Citizens:

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1021 North Grand Avenue East, Post Office Box 19276
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Address: 8403 Lindenwood Road

City: Rockford, Illinois 61109

County: Winnebago

TYPE PERMIT SUBMISSIONS:

TYPE FACILITY:

TYPE WASTE:

New Landfill	<input type="checkbox"/>	Landfill	<input checked="" type="checkbox"/>	General Municipal Refuse	<input checked="" type="checkbox"/>
Landfill Expansion	<input type="checkbox"/>	Land Treatment	<input type="checkbox"/>	Hazardous	<input type="checkbox"/>
First Significant Modification	<input type="checkbox"/>	Transfer Station	<input type="checkbox"/>	Special (Non-Hazardous) Chemical Only (exec. putrescible)	<input checked="" type="checkbox"/>
Significant Modification to Operate	<input type="checkbox"/>	Treatment Facility	<input type="checkbox"/>	Inert Only (exec. chem. & putrescible)	<input type="checkbox"/>
Other Significant Modification	<input checked="" type="checkbox"/>	Storage	<input type="checkbox"/>	Used Oil	<input type="checkbox"/>
Renewal of Landfill Development	<input type="checkbox"/>	Incinerator	<input type="checkbox"/>	Solvents	<input type="checkbox"/>
Operating Supplemental Transfer	<input type="checkbox"/>	Composting	<input type="checkbox"/>	Landscape/Yard Waste	<input type="checkbox"/>
Name Change	<input type="checkbox"/>	Recycling/Reclamation	<input type="checkbox"/>	Other (Specify _____)	<input type="checkbox"/>
Generic	<input type="checkbox"/>	Other	<input type="checkbox"/>		

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Alternate source demonstration in accordance with Condition VIII.15 (Modification No. 42).

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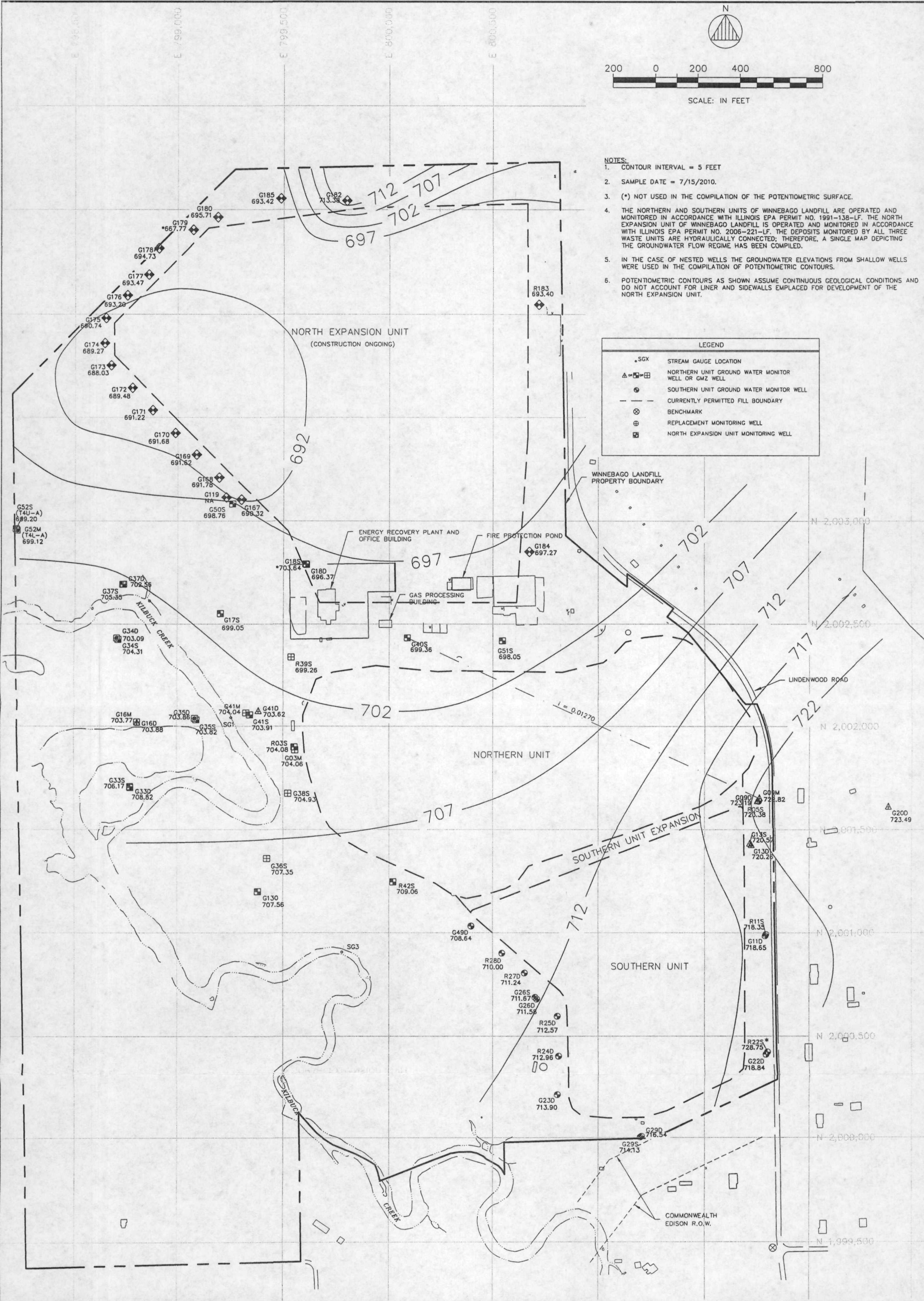
jab\002711i.doc
IL 532 0334
LPC 040 Rev. Feb. 03

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APPENDIX B

Potentiometric Surface Maps

©1990 Andrews Engineering, Inc.



- NOTES:
1. CONTOUR INTERVAL = 5 FEET
 2. SAMPLE DATE = 7/15/2010.
 3. (*) NOT USED IN THE COMPILATION OF THE POTENTIOMETRIC SURFACE.
 4. THE NORTHERN AND SOUTHERN UNITS OF WINNEBAGO LANDFILL ARE OPERATED AND MONITORED IN ACCORDANCE WITH ILLINOIS EPA PERMIT NO. 1991-138-LF. THE NORTH EXPANSION UNIT OF WINNEBAGO LANDFILL IS OPERATED AND MONITORED IN ACCORDANCE WITH ILLINOIS EPA PERMIT NO. 2006-221-LF. THE DEPOSITS MONITORED BY ALL THREE WASTE UNITS ARE HYDRAULICALLY CONNECTED; THEREFORE, A SINGLE MAP DEPICTING THE GROUNDWATER FLOW REGIME HAS BEEN COMPILED.
 5. IN THE CASE OF NESTED WELLS THE GROUNDWATER ELEVATIONS FROM SHALLOW WELLS WERE USED IN THE COMPILATION OF POTENTIOMETRIC CONTOURS.
 6. POTENTIOMETRIC CONTOURS AS SHOWN ASSUME CONTINUOUS GEOLOGICAL CONDITIONS AND DO NOT ACCOUNT FOR LINER AND SIDEWALLS EMPLACED FOR DEVELOPMENT OF THE NORTH EXPANSION UNIT.

LEGEND	
SGX	STREAM GAUGE LOCATION
▲	NORTHERN UNIT GROUND WATER MONITOR WELL OR GMZ WELL
●	SOUTHERN UNIT GROUND WATER MONITOR WELL
- - -	CURRENTLY PERMITTED FILL BOUNDARY
⊗	BENCHMARK
⊕	REPLACEMENT MONITORING WELL
■	NORTH EXPANSION UNIT MONITORING WELL

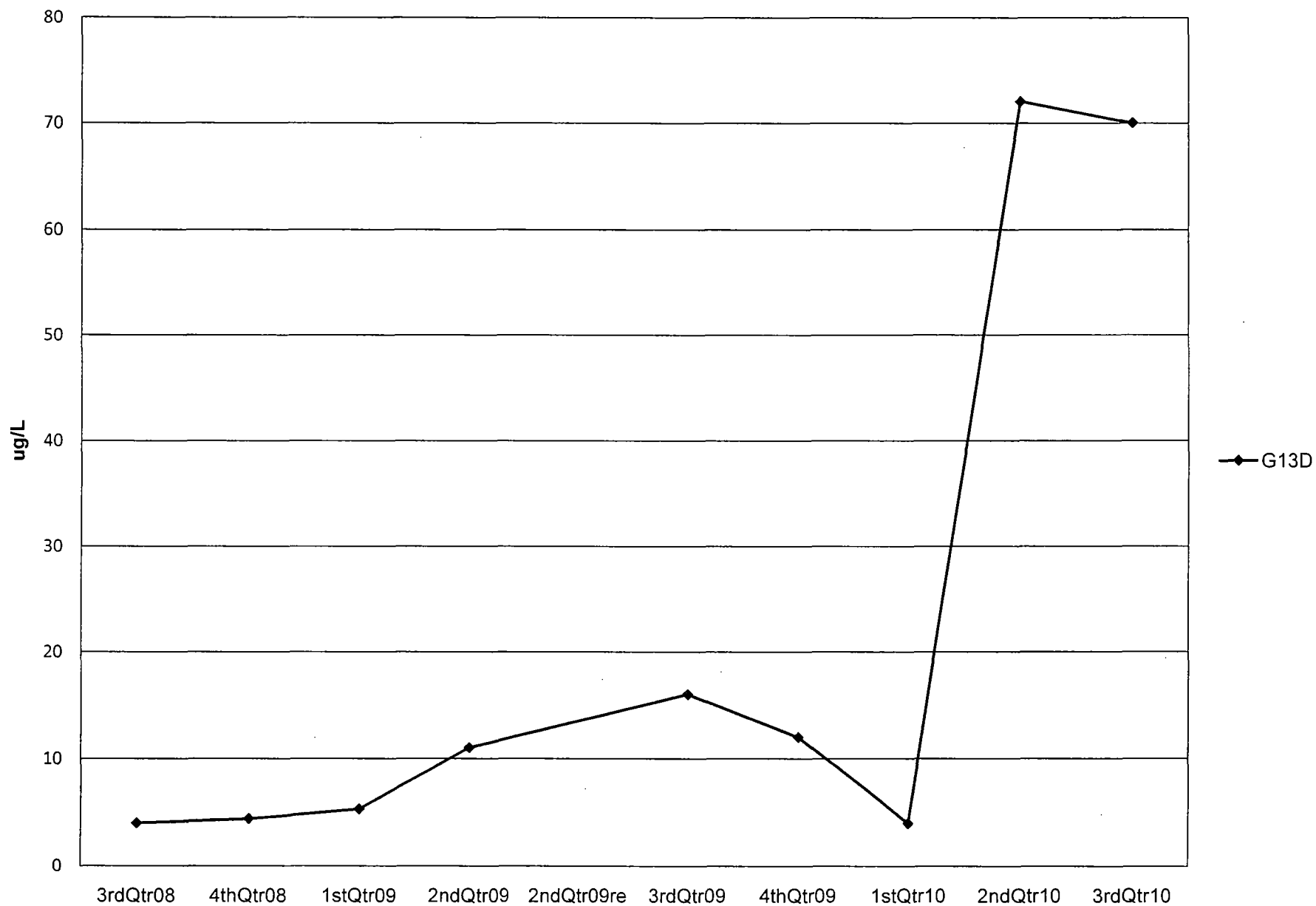
3Q10	POTENTIOMETRIC SURFACE MAP 3RD QUARTER 2010	ANDREWS ENGINEERING, INC. 3300 Ginger Creek Drive, Springfield, IL 62711-7233 Tel (217) 787-2334 Fax (217) 787-9495 Pontiac, IL • Naperville, IL • Indianapolis, IN • Warrenton, MO	REVISIONS			
	DATE: SEPTEMBER 2010		NO.	DATE	DESCRIPTION	BY
	PROJECT ID: 90-114					
SHEET NUMBER:	PLANS PREPARED FOR WINNEBAGO LANDFILL ROCKFORD, WINNEBAGO COUNTY, ILLINOIS	APPROVED BY: JLR	DESIGNED BY: JLR	DRAWN BY: MPN		

APPENDIX C

Graphical Trend Analyses

Northern Unit

Winnebago Landfill
Northern Unit
Dissolved Chromium

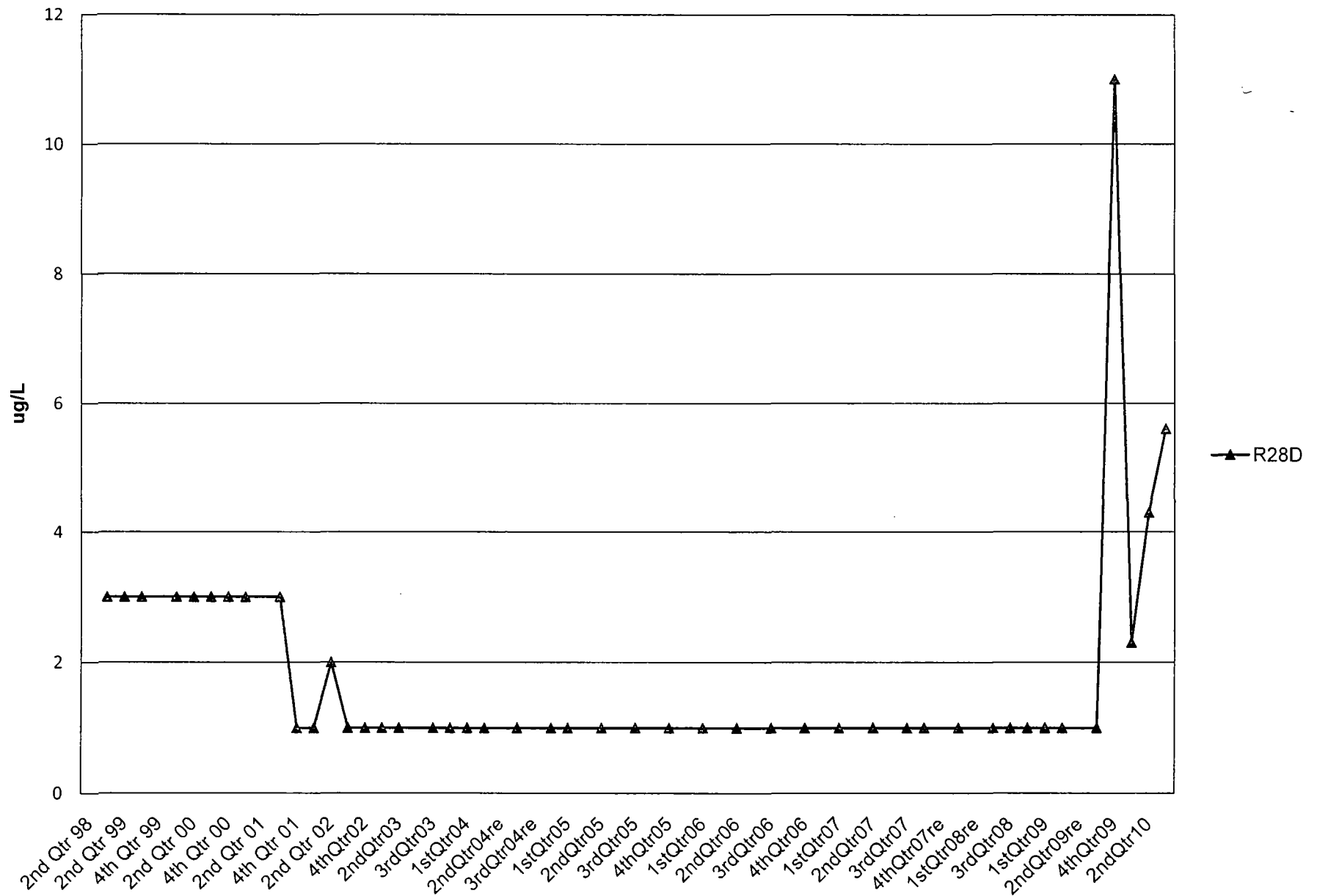


The graph displays the concentration of G13D in mg/L over time. The y-axis ranges from 0 to 4500 mg/L in increments of 500. The x-axis shows quarters from 1st Qtr 97 to 2nd Qtr 10. The concentration remains relatively stable, fluctuating between approximately 400 and 1100 mg/L until the 1st Qtr 09. In the 2nd Qtr 09, there is a significant spike to 2500 mg/L. This is followed by a sharp increase to over 4000 mg/L in the 2nd Qtr 10.

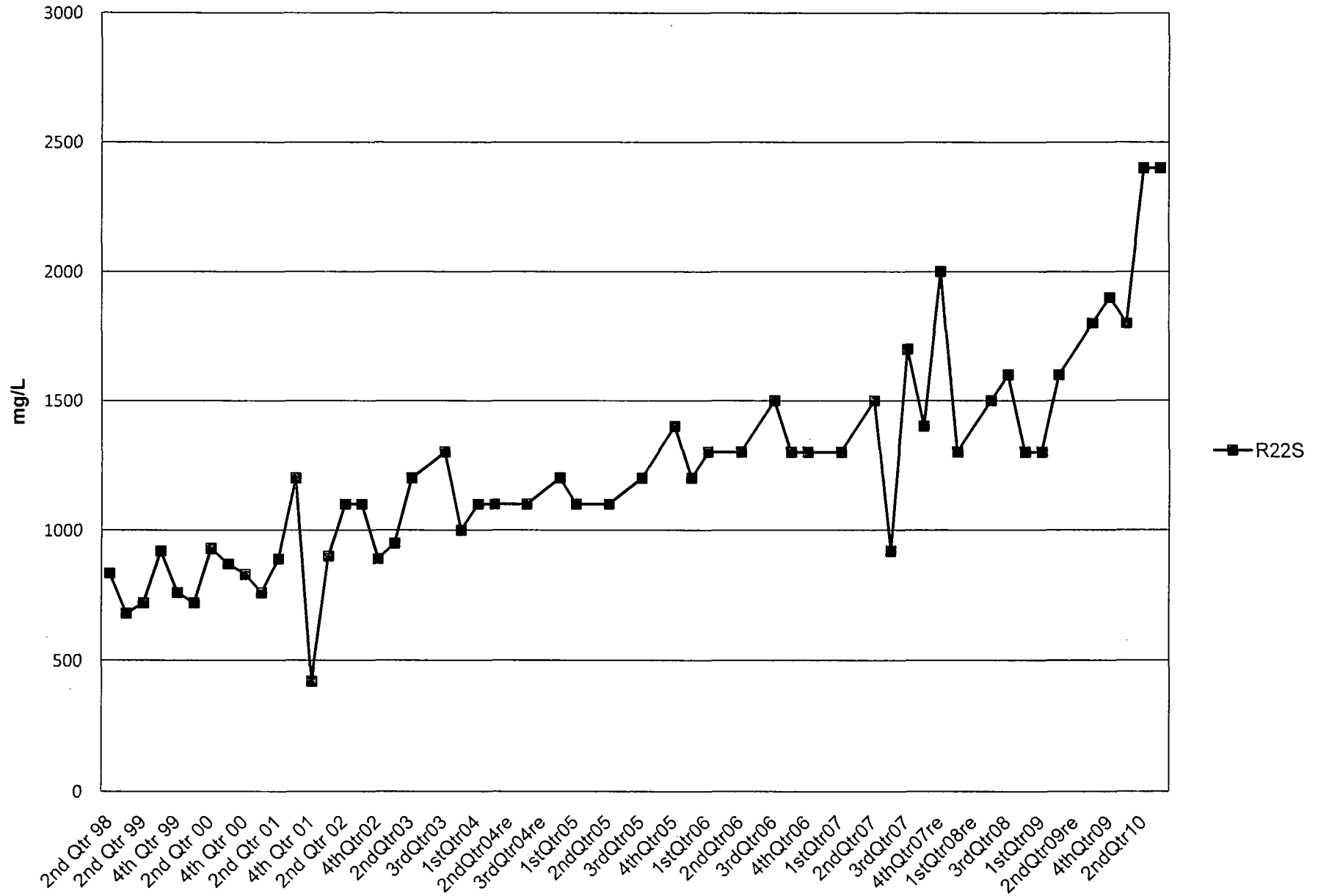
Quarter	G13D (mg/L)
1st Qtr 97	800
2nd Qtr 97	600
3rd Qtr 97	500
4th Qtr 97	900
1st Qtr 98	800
2nd Qtr 98	750
3rd Qtr 98	950
4th Qtr 98	750
1st Qtr 99	750
2nd Qtr 99	750
3rd Qtr 99	1000
4th Qtr 99	700
1st Qtr 00	400
2nd Qtr 00	900
3rd Qtr 00	750
4th Qtr 00	750
1st Qtr 01	750
2nd Qtr 01	800
3rd Qtr 01	850
4th Qtr 01	950
1st Qtr 02	750
2nd Qtr 02	850
3rd Qtr 02	650
4th Qtr 02	750
1st Qtr 03	850
2nd Qtr 03	750
3rd Qtr 03	900
4th Qtr 03	950
1st Qtr 04	800
2nd Qtr 04	950
3rd Qtr 04	1000
4th Qtr 04	1000
1st Qtr 05	1000
2nd Qtr 05	1000
3rd Qtr 05	1000
4th Qtr 05	1000
1st Qtr 06	1100
2nd Qtr 06	1000
3rd Qtr 06	950
4th Qtr 06	500
1st Qtr 07	950
2nd Qtr 07	1000
3rd Qtr 07	1000
4th Qtr 07	1000
1st Qtr 08	1000
2nd Qtr 08	1100
3rd Qtr 08	1100
4th Qtr 08	1100
1st Qtr 09	1200
2nd Qtr 09	1800
3rd Qtr 09	2500
4th Qtr 09	1700
1st Qtr 10	1800
2nd Qtr 10	1700
3rd Qtr 10	4200
4th Qtr 10	3700

Southern Unit

Winnebago Landfill
Southern Unit
Dissolved Arsenic



Winnebago Landfill Southern Unit Total Dissolved Solids



APPENDIX D
Statistical Method

Statistical Analyses Method

References:

1. 35 Illinois Administrative Code 811.320
2. "Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance." Office of Solid Waste, USEPA, April 1989.
3. "Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance." Office of Solid Waste, USEPA, July 1992.
4. "Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance." Office of Solid Waste, USEPA, January 1993.

Background quality shall be determined using the statistical techniques set forth in 35 IAC 811.320(e). The data was tested for normality using the Shapiro-Wilk normality test. If the data was found not to follow a normal distribution, a nonparametric statistical method was utilized. The data was examined for outliers by the method described in the "Statistical Analysis of Ground-Water Monitoring, Interim Final Guidance and Addendum to Interim Final Guidance." After the outlier test the percentages of non-detect values (NDs) shall be calculated for each parameter to determine the applicable ND treatment method, if any. Once the treatment of non-detect values is done, the prediction limit for each parameter shall be calculated using the mean, standard deviation, and the appropriate t value. The statistical analysis uses a one-tailed test to determine an upper limit of significance. The upper prediction limit shall be the concentration for the probability that the constituent can be measured without constituting a statistical increase above the background. Any concentration found below this limit is regarded as falling within the normal statistical population.

Statistical Method

The statistical method shall employ the 99% confidence limit (99% CL) for all interwell calculations and the 99% confidence limit (99% CL) for all intrawell calculations, which incorporates the mean, standard deviation, number of samples, and the Student's t value in the calculation of a confidence limit to determine general background groundwater quality. An upper confidence limit shall be calculated for each individual chemical parameter. The well data from the site shall be evaluated statistically with samples collected during four (4) consecutive quarters of background sampling.

Handling of Outliers

Prior to statistical analyses the data set was evaluated for outliers. Outliers are defined as data points that vary significantly from the mean value for that data set. Outliers may represent

sampling error, contamination from surface run-off, analytical laboratory error, or anomalous site conditions. Outliers, if not removed from the data set, can erroneously increase the AGQS and minimize the occurrence of an exceedences related to a release from a waste unit. Once a statistical outlier has been identified, the concentrations shall be evaluated to determine the cause. If a valid reason has been determined for the outlier the data point will be removed from the data set. If no specific reason can be documented the point will considered representative and included in the analysis. Statistical analysis will then be conducted as described below.

Handling of Non-Detects (NDs)

Non-detect values (NDs) were handled according to the percentage of Non-Detects (%ND) present in the background sampling. The %ND was calculated for each parameter from the pooled background data of each well set. The data treatment was done according to the following criteria:

- a) For under 0% NDs, no adjustment is made to the values in the data set.
- b) For under 15% NDs, the value of one-half ($\frac{1}{2}$) the reported Detection Limit (DL) was substituted for the ND value, and the mean and standard deviation were calculated using detected values with the substituted ND values.
- c) For 15-50% NDs, Cohen's Adjustment was used to adjust the mean and standard deviation. The adjusted mean and standard deviation was then used to calculate the Confidence Limit.
- d) For over 50% but not 100% NDs, the highest recorded concentration was substituted for the prediction limit.
- e) For 100% NDs, the Method Detection Limit (MDL) will be substituted for the ND value. The mean and standard deviation was calculated using the substituted ND values.

Confidence Limit

The statistical procedure was conducted according to the following steps:

1. Calculate arithmetic mean

The arithmetic mean was calculated using the pooled data for each parameter. The arithmetic mean (X_b) was calculated using the following equation:

$$X_b = \frac{X_1 + X_2 + \dots + X_n}{n}$$

where: X_b = Average background value

X_n = Individual background value for n sample

n = Number of background values

2. Calculate standard deviation

The standard deviation was calculated using the pooled data for each parameter. The standard deviation was calculated using the following equation:

$$S_b = \sqrt{\frac{(X_1 - X_b) + (X_2 - X_b) + \dots + (X_n - X_b)}{n - 1}}$$

where: S_b = Population standard deviation
 X_n = Individual background value for n sample
 X_b = Mean (1)
 n = Number of background samples

3. Calculate the 99% Upper Confidence Limit (Intrawell Values)

The 99% Upper Confidence Limit was calculated for each parameter using the mean (1), the standard deviation (2), the number of background samples, and the Student's t value given for $\sigma = 0.01$ (99% Confidence). The Student's t value varies upon the number of background samples. For those parameters with greater than 50% but not 100% NDs, the Cohen Method was utilized to calculate the 99% Confidence Limit. The methodology described in "Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities: Addendum to Interim Final Guidance" dated January 28, 1993 was used to calculate the Cohen Confidence Limit. The 99% Upper Confidence Limit for the remaining parameters was calculated using the following equation:

$$CL = X_b + S_b \cdot t \cdot \sqrt{1 + \frac{1}{n}}$$

where: CL = Upper Confidence Limit (Upper and Lower for pH)
 X_b = Mean (1)
 S_b = Standard Deviation (2)
 t = Student's t value at 0.01 significance (99% Confidence)
 n = Number of background samples

4. Calculate the 99% Upper Confidence Limit (Interwell Values)

The 99% Upper Confidence Limit was calculated for each parameter using the mean (1), the standard deviation (2), the number of background samples, and the Student's t value given for $\sigma = 0.01$ (99% Confidence). The Student's t value varies upon the number of background samples. For those parameters with greater than 50% but not 100% NDs, the Cohen Method was utilized to calculate the 99% Confidence Limit. The methodology described in "Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities: Addendum to Interim Final Guidance" dated January 28, 1993 was used to calculate the Cohen Confidence Limit. The

99% Upper Confidence Limit for the remaining parameters was calculated using the following equation:

$$CL = X_b + S_b \cdot t \cdot \sqrt{1 + \frac{1}{n}}$$

where: CL = Upper Confidence Limit (Upper and Lower for pH)

X_b = Mean (1)

S_b = Standard Deviation (2)

t = Student's t value at 0.01 significance (99% Confidence)

n = Number of background samples

APPENDIX E
Statistical Calculations

Winnebago Landfill
Southern Unit
Intrawell AGQS Statistics
R28D

Raw Data

Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10
R28D					
Dissolved Arsenic	ug/L	11	2.3	4.3	5.6

Outlier Testing						n	X_{mean}	SD	T_n	$T = (X - X_{\text{mean}}) / SD$, where X = sample result				Outlier = $T > T_n$			
Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	Number of Samples	Mean	Standard Deviation	Critical Values	4Q09	1Q10	2Q10	3Q10	4Q09	1Q10	2Q10	3Q10
R28D																	
Dissolved Arsenic	ug/L	11	2.3	4.3	5.6	4	5.80	3.7229	1.492	1.397	-0.940	-0.403	-0.054	—	—	—	—

A highlighted cell indicates an outlier.

ND Analyses

Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	Number of Samples	Number of ND's	% ND	ND Treatment
R28D									
Dissolved Arsenic	ug/L	11	2.3	4.3	5.6	4	0	0.0%	NO ADJ

Tolerance Limit = $x + st[1+(1/n)]^{1/2}$
Confidence Level = 99%

Prediction Limits

Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	ND Treatment	Mean	Standard Deviation	Number of Samples	T Value	Prediction Limit
R28D											
Dissolved Arsenic	ug/L	11	2.3	4.3	5.6	NO ADJ	5.80	3.7229	4	4.5407	24.70

Winnebago Landfill
Southern Unit
Intrawell AGQS Statistics
R22S

Raw Data

Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10
R22S					
Total Dissolved Solids	mg/L	1900	1800	2400	2400

Outlier Testing															
						n	\bar{X}_{mean}	SD	T_n	$T = (X - \bar{X}_{mean}) / SD$, where X = sample result				$Outlier = T > T_n$	
Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	Number of Samples	Mean	Standard Deviation	Critical Values	4Q09	1Q10	2Q10	3Q10	4Q09	1Q10
R22S															
Total Dissolved Solids	mg/L	1900	1800	2400	2400	4	2125.00	320.1562	1.492	-0.703	-1.015	0.859	0.859	--	--

A highlighted cell indicates an outlier.

ND Analyses

Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	Number of Samples	Number of ND's	% ND	ND Treatment
R22S									
Total Dissolved Solids	mg/L	1900	1800	2400	2400	4	0	0.0%	NO ADJ

Tolerance Limit = $\bar{x} + st[1+(1/n)]^{1/2}$
Confidence Level = 99%

Prediction Limits

Parameter	Units	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	ND Treatment	Mean	Standard Deviation	Number of Samples	T Value	Prediction Limit
R22S											
Total Dissolved Solids	mg/L	1900	1800	2400	2400	NO ADJ	2125.00	320.1562	4	4.5407	3750.32